



# Recombinant Proteins

Target Proteins & Cytokines

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GenScript's variety of recombinant protein expression platforms can offer fast production and delivery of high-quality recombinant proteins. We have delivered cytokines & growth factors, tag cleavage enzymes, virus antigens, drug target related proteins, MHC, multi-pass transmembrane proteins and Fc receptors. All proteins have been highly purified with excellent lot-to-lot consistency, proven biological activity, and significant low endotoxin levels



### Fully Validated Bioactivity

The product's activity is ensured to be scientifically validated through multiple methods, including cell experiments, ELISA, SPR, BLI, etc.



### Extended Shelf Life

With the support of stringent lyophilization technology, the product boasts an extended shelf life, ensuring long-term stability.



### Consistency in Bulk Supply

GenScript supports large-scale supply and single-batch inventory locking to minimize batch-to-batch variability

## Target Protein Products

With over 20 years of experience in recombinant protein R&D and production, GenScript offers comprehensive and reliable proteins, including hot targets, FGF receptors, Fc receptors, and MHC proteins, providing businesses and research institutions with access to innovative drugs from R&D to the clinic.

## Features



3000+ Target  
Proteins Provided



100%  
Bioactivity Verified



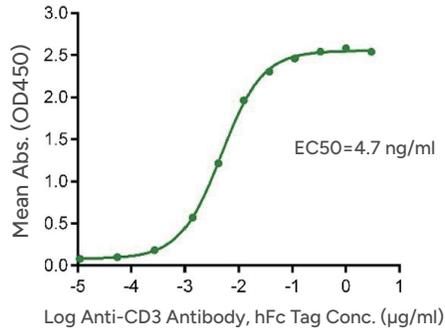
High Consistency  
between Batches



Various conjugates  
and Species

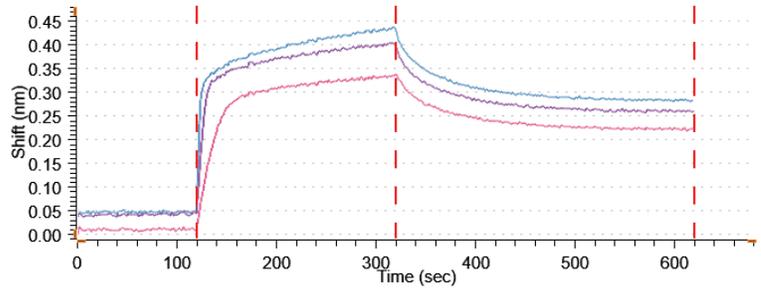
# High-quality target proteins and comprehensive verification to ensure reliability

## • Binding capacity with antibody tested by ELISA



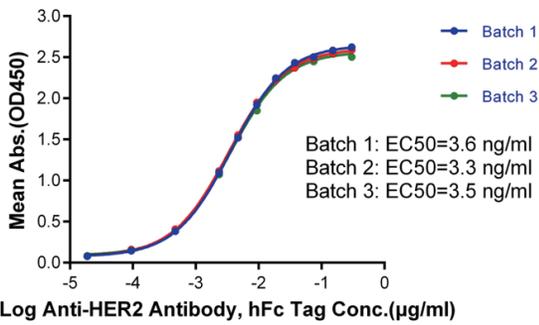
Immobilized CD3E&CD3D, His, Human at 2 µg/ml can bind Anti-CD3 Antibody (OKT3).

## • Bioactivity tested by BLI

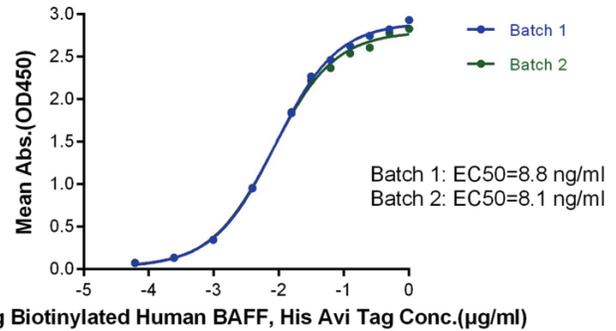


Binding ability of FGFR2 captured on hFc probe (hFc tag) to FGF-10.

## • Verified consistency between batches

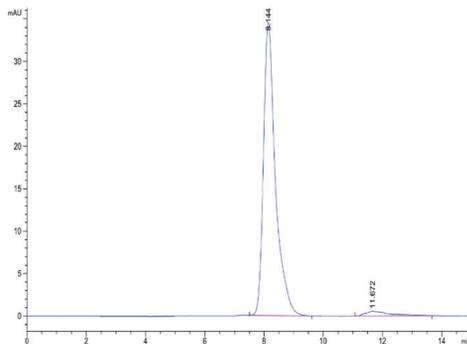


Immobilized Human Her2, His Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-HER2 Antibody, hFc Tag with the EC50 of 3.6/3.3/3.5ng/ml determined by ELISA.



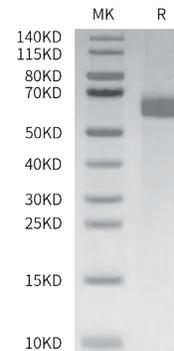
Immobilized Human BCMA, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human BAFF, His Avi Tag with the EC50 of 8.8/8.1ng/ml determined by ELISA.

## • High purity tested by HPLC-SEC



The purity of DLL4, Human (Cat. No. Z03812) is greater than 95% as determined by SEC-HPLC.

## • High purity tested by SDS-PAGE



DLL4 Human (Cat. No. Z03812) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

## Product List - Hot Target Proteins

Protein Name	Cat. No.	Product Name
Claudin 18.2	Z03504	CLDN18.2, His, Human
	Z03709	CLDN18.2, hFc, Human
DLL3	Z03813	DLL3, His, Human
	Z03944	DLL3[Biotin], His, Human
	Z03947	DLL3, His, Cynomolgus
	Z03948	DLL3, His, Mouse
	Z03949	DLL3, His, Rhesus macaque
	Z03950	DLL3 (27-215), His&Flag, Human
	Z03951	DLL3 Domain (311-479), His&Avi, Human
	Z03953	DLL3 Domain (311-479)[Biotin], His&Avi, Human
	Z03952	DLL3 Domain (352-479), His&Avi, Human
CA125	Z03650	CA125/MUC16, His & Avi, Human
	Z04037	CA125/MUC16, His, Human
	Z04421	CA125/MUC16[Biotin], His & Avi, Human
	Z04422	CA125/MUC16[Biotin], His & Avi, Human
CD19	Z03407	CD19 Fc Chimera, Human
	Z04141	CD19, His, Cynomolgus/Rhesus macaque
	Z04165	CD19, His, Human
CD20	Z03630	CD20, His & Avi, Human
	Z06789	CD20/MS4A1, His & Avi, Human
	Z04056	CD20/MS4A1 [Biotin], His & Avi, Human
CD47	Z03418	CD47 Fc Chimera, Human
	Z03419	CD47, His, Human
	Z04069	CD47 hFc Chimera[Biotin], Avi, Human
	Z04070	CD47[Biotin], His & Avi, Human
	Z04143	CD47, His, Cynomolgus/Rhesus macaque
	Z04212	CD47, Human
	Z04213	CD47, His, Human
	Z04214	CD47 hFc Chimera, Human
	Z04322	CD47 hFc Chimera, Mouse
	Z04323	CD47, His, Mouse
Z04353	CD47 hFc Chimera, Rat	

Protein Name	Cat. No.	Product Name
HER2	Z04301	CD19, His, Mouse
	Z03898	Her2/ErbB2 (S310F), His, Human
	Z03899	Her2/ErbB2 Domain 4, His & Avi, Human
	Z03900	Her2/ErbB2 hFc Chimera, Human
	Z03901	Her2/ErbB2[Biotin], His & Avi, Human
	Z03902	Her2/ErbB2 Domain 4[Biotin], His & Avi, Human
	Z03903	Her2/ErbB2, His, Cynomolgus
	Z03904	Her2/ErbB2, His, Mouse
CDH17	Z04430	CDH17/Cadherin 17 Domain 5-7 [Biotin], His, Human
	Z04431	CDH17/Cadherin 17[Biotin], His & Avi, Human
	Z04653	CDH17/Cadherin 17[Biotin], His, Mouse
	Z04763	CDH17/Cadherin 17, His, Cynomolgus
	Z04961	CDH17/Cadherin 17[FITC], His, Human
	Z05147	CDH17/Cadherin 17 Domain 1&2, His, Human
	Z05148	CDH17/Cadherin 17 Domain 1-6, His, Human
	Z05149	CDH17/Cadherin 17 Domain 3&4 mFc Chimera, Human
	Z05150	CDH17/Cadherin 17 Domain 5-7, His, Human
	Z05151	CDH17/Cadherin 17 Domain 6-7 mFc Chimera, Human
	Z05152	CDH17/Cadherin 17 Domain 6-7 hFc Chimera, Human
	Z05153	CDH17/Cadherin 17 Domain 7 hFc Chimera, Human
	Z05154	CDH17/Cadherin 17 hFc Chimera, Human
	Z05155	CDH17/Cadherin 17, His, Human
	Z06056	CDH17/Cadherin 17, His, Mouse
	Z06435	CDH17/Cadherin 17, His, Rhesus macaque
MSLN	Z03857	MSLN/Mesothelin (296-598, M593V), His, Human
	Z03858	MSLN/Mesothelin(296-598), His, Human
	Z03859	MSLN/Mesothelin(296-591), His, Human
	Z03860	MSLN/Mesothelin(296-580), His & Avi, Human
	Z03861	MSLN/Mesothelin(487-598), His & Avi, Human
	Z03862	MSLN/Mesothelin(296-580) hFc Chimera, Human
	Z03863	MSLN/Mesothelin(488-600) hFc Chimera, Human
	Z03864	MSLN/Mesothelin(487-598) hFc Chimera, Human
	Z03865	MSLN/Mesothelin(296-580)[Biotin], His & Avi, Human
	Z03866	MSLN/Mesothelin(296-600)[Biotin], His & Avi, Human
	Z03867	MSLN/Mesothelin(487-598)[Biotin], His & Avi, Human

Protein Name	Cat. No.	Product Name
MSLN	Z03868	MSLN/Mesothelin(296-580) hFc Chimera[Biotin], Avi, Human
	Z03872	MSLN/Mesothelin(296-580), His, Cynomolgus
	Z03873	MSLN/Mesothelin(296-598), His, Cynomolgus
	Z03874	MSLN/Mesothelin(306-590) hFc Chimera, Cynomolgus
	Z03875	MSLN/Mesothelin(296-580)[Biotin], His, Cynomolgus
	Z03876	MSLN/Mesothelin(298-600), His, Mouse
	Z03877	MSLN/Mesothelin(298-600)[Biotin], His, Mouse
	Z03878	MSLN/Mesothelin(298-600), His, Rat
	Z04149	MSLN/Mesothelin[FITC], His & Avi, Human
	Z04148	MSLN/Mesothelin hFc Chimera[FITC], Human
	Z06408	MSLN/Mesothelin[PE], His & Avi, Human
	PSMA	Z03563
Z03564		PSMA Fc Chimera, Human
Z04375		PSMA/FOLH1[Biotin], His, Cynomolgus
Z04589		PSMA/FOLH1[Biotin], His & Avi, Human
Z04678		PSMA/FOLH1 [Biotin], His, Mouse
Z04902		PSMA/FOLH1, His, Cynomolgus
Z05774		PSMA/FOLH1 hFc Chimera, Human
Z05775		PSMA/FOLH1, His, Human
Z06328	PSMA/FOLH1, His, Mouse	
CEACAM5	Z03830	CEACAM-5/CD66e (145-322), His, Human
	Z03831	CEACAM-5/CD66e (323-500), His, Human
	Z03832	CEACAM-5/CD66e (501-685), His, Human
	Z03833	CEACAM-5/CD66e, His, Human
	Z03834	CEACAM-5/CD66e[Biotin], His & Avi, Human
	Z03835	CEACAM-5/CD66e, His, Cynomolgus
TROP2	Z03839	TROP-2/TACSTD2, His, Human
	Z03840	TROP-2/TACSTD2 hFc Chimera, Human
	Z03841	TROP-2/TACSTD2[Biotin], His & Avi, Human
	Z03842	TROP-2/TACSTD2, His, Cynomolgus
	Z03843	TROP-2/TACSTD2, His, Mouse
	Z03844	TROP-2/TACSTD2, His, Rat
EGFR	Z03918	EGFR/HER1, His & Avi, Human
	Z03919	EGFR/HER1 hFc Chimera, Human
	Z03920	EGFR/HER1[Biotin], His & Avi, Human

Protein Name	Cat. No.	Product Name
EGFR	Z03921	EGFR/HER1[FITC], His & Avi, Human
	Z03922	EGFR/HER1, His, Mouse
	Z03923	EGFR/HER1, His, Rhesus macaque
EGFRVIII	Z03940	EGFRVIII, His&Avi, Human
	Z03941	EGFRVIII[Biotin], His&Avi, Human
	Z03942	EGFRVIII[FITC], His&Avi, Human
	Z03943	EGFRVIII[PE], His&Avi, Human
Nectin-4	Z03823	Nectin-4, His & Avi, Human
	Z03824	Nectin-4 hFc Chimera, Human
	Z03825	Nectin-4[Biotin], His & Avi, Human
	Z03826	Nectin-4, His, Mouse
	Z03827	Nectin-4, His,Cynomolgus
	Z03828	Nectin-4 IgV Domain, His & Avi, Human
	Z03829	Nectin-4 IgV Domain[Biotin], His & Avi, Human
ADAM9	Z04723	ADAM9, His, Cynomolgus
	Z04994	ADAM9, His, Human
	Z05985	ADAM9, His, Mouse
B7-H3	Z03426	B7-H3 Fc Chimera, Human
	Z03427	B7-H3, His, Human
	Z03880	B7-H3/CD276, His, Human
	Z03881	B7-H3/CD276 hFc Chimera, Human
	Z03882	B7-H3/CD276[Biotin], His & Avi, Human
	Z03884	B7-H3/CD276 hFc Chimera[Biotin], Avi, Human
	Z03885	B7-H3/CD276 hFc Chimera[FITC], Human
	Z03886	B7-H3/CD276, His, Cynomolgus
	Z03887	B7-H3/CD276, His, Mouse
	Z03889	B7-H3 (4Ig) /B7-H3b hFc Chimera, Human
	Z03890	B7-H3 (4Ig) /B7-H3b[Biotin], His & Avi, Human
BCMA	Z03845	BCMA/TNFRSF17 [FITC], His, Human
	Z03846	BCMA/TNFRSF17 , His & Avi, Human
	Z03847	BCMA/TNFRSF17 hFc Chimera, Human
	Z03848	BCMA/TNFRSF17 Trimer, His & Avi, Human
	Z03850	BCMA/TNFRSF17 Trimer[Biotin], His & Avi, Human

Protein Name	Cat. No.	Product Name
BCMA	Z03852	BCMA/TNFRSF17 , His, Cynomolgus/Rhesus macaque
	Z03853	BCMA/TNFRSF17 hFc Chimera, Cynomolgus/Rhesus macaque
	Z03854	BCMA/TNFRSF17 , His & Avi, Mouse
	Z03855	BCMA/TNFRSF17 hFc Chimera, Mouse
	Z03856	BCMA/TNFRSF17 [Biotin], His & Avi, Mouse
	Z04146	BCMA/TNFRSF17[FITC], His & Avi, Human
	Z04049	BCMA/TNFRSF17[Biotin], His & Avi, Human
	Z06800	BCMA TNFRSF17 hFc Chimera, Human
	Z06802	BCMA(TNFRSF17) hFc Chimera [Biotin], Human
	Z06803	BCMA(TNFRSF17) hFc Chimera [iFluor 647], Human
	Z06804	BCMA(TNFRSF17) hFc Chimera [iFluor 488], Human
CDH6	Z04765	CDH6/Cadherin-6, His, Cynomolgus
	Z05158	CDH6/Cadherin-6 hFc Chimera, Human
	Z05159	CDH6/Cadherin-6, His, Human
	Z05160	CDH6/Cadherin6, His, Human
	Z06058	CDH6/Cadherin-6, His, Mouse
FOLR1	Z03924	FOLR1, His & Avi, Human
	Z03925	FOLR1 hFc Chimera, Human
	Z03926	FOLR1[Biotin], His & Avi, Human
	Z03928	FOLR1, His, Cynomolgus/Rhesus macaque
	Z03929	FOLR1, His, Mouse
ROR1	Z03640	ROR1, hFc, Human
	Z03930	ROR1, His, Human
	Z03931	ROR1, His & Avi, Human/Cynomolgus/Rhesus macaque
	Z03932	ROR1 hFc Chimera, Human/Cynomolgus/Rhesus macaque
	Z03933	ROR1[Biotin], His & Avi, Human/Cynomolgus/Rhesus macaque
	Z03934	ROR1, His, Mouse
	Z03935	ROR1, His, Canine
	Z03936	ROR1 (165-305, Frizzled Domain), His, Human/Cynomolgus/Rhesus macaque
	Z03937	ROR1 (30-305,Ig-like&Frizzled Domain), His, Human/Cynomolgus/Rhesus macaque
	Z03938	ROR1 (308-395, Kringle Domain), His, Human/Cynomolgus/Rhesus macaque
Z03939	ROR1 (39-151, Ig-like Domain), His, Human/Cynomolgus/Rhesus macaque	
GUCY2C	Z03911	GUCY2C/Guanylyl cyclase C, His & Avi, Human
	Z03912	GUCY2C/Guanylyl cyclase C hFc Chimera, Human
	Z03913	GUCY2C/Guanylyl cyclase C[Biotin], His & Avi, Human

Protein Name	Cat. No.	Product Name
GUCY2C	Z03914	GUCY2C/Guanylyl cyclase C, His, Cynomolgus
	Z03915	GUCY2C/Guanylyl cyclase C, His & Avi, Mouse
	Z03916	GUCY2C/Guanylyl cyclase C[Biotin], His & Avi, Mouse
	Z03917	GUCY2C/Guanylyl cyclase C, His, Canine
CD30	Z03641	CD30, hFc, Human
	Z03642	CD30, His, Human
	Z04063	CD30/TNFRSF8[Biotin], His & Avi, Human
	Z04114	CD30/TNFRSF8, His, Cynomolgus
	Z04187	CD30/TNFRSF8 hFc Chimera, Human
	Z04188	CD30/TNFRSF8, His & Avi, Human
	Z04185	CD30 Ligand/TNFSF8, His, Human
CD70	Z03450	CD27 Ligand/CD70 Fc Chimera, Human
	Z04112	CD27 Ligand/CD70, His, Cynomolgus
	Z04147	CD27 Ligand/CD70 Trimer[FITC], His, Human
	Z04179	CD27 Ligand/CD70 hFc Chimera, Human
	Z04180	CD27 Ligand/CD70 Trimer, His, Human
	Z04306	CD27 Ligand/CD70 hFc Chimera, Mouse
	Z04425	CD27 Ligand/CD70 Trimer[Biotin], His, Human
GPC3	Z04093	GPC3/Glypican 3[Biotin], His & Avi, Human
	Z04133	GPC3/Glypican 3, His, Cynomolgus
	Z04268	GPC3/Glypican 3, His, Human
	Z04339	GPC3/Glypican 3, His, Mouse
	Z04349	GPC3/Glypican 3[PE], His, Human



Access to full  
product information

## Product List - FGF Receptors

Cat. No.	Product Name
Z04083	FGFR1 alpha (IIIc)[Biotin], His & Avi, Human
Z04084	FGFR2 alpha (IIIb)[Biotin], His & Avi, Human
Z04085	FGFR2 alpha (IIIc)[Biotin], His & Avi, Human
Z04086	FGFR2 beta (IIIb)[Biotin], His & Avi, Human
Z04087	FGFR2 beta (IIIc)[Biotin], His & Avi, Human
Z04088	FGFR3 alpha (IIIb)[Biotin], His & Avi, Human
Z04089	FGFR3 alpha (IIIc)[Biotin], His & Avi, Human
Z04090	FGFR3 beta (IIIb)[Biotin], His & Avi, Human
Z04091	FGFR3 beta (IIIc)[Biotin], His & Avi, Human
Z04092	FGFR4[Biotin], His & Avi, Human
Z04132	FGFR2 beta (IIIb), His, Cynomolgus
Z04253	FGFR1 alpha (IIIc), His & Avi, Human
Z04254	FGFR2 alpha (IIIb), His, Human
Z04255	FGFR2 alpha (IIIb) hFc Chimera, Human
Z04256	FGFR2 alpha (IIIc), His, Human
Z04257	FGFR2 beta (IIIb) hFc Chimera, Human
Z04258	FGFR2 beta (IIIb), His, Human
Z04259	FGFR2 beta (IIIb), His, Human
Z04260	FGFR2 beta (IIIc), His, Human
Z04261	FGFR3 alpha (IIIc), His & Avi, Human
Z04262	FGFR3 beta (IIIb), His & Avi, Human
Z04263	FGFR3 beta (IIIc), His & Avi, Human
Z04264	FGFR4 hFc Chimera, Human
Z04265	FGFR4, His & Avi, Human
Z04338	FGFR2 beta (IIIb), His, Mouse
Z04460	FGFR1 beta (IIIc)[Biotin], His & Avi, Human
Z04461	FGFR2 beta (IIIb) Domain[Biotin], Avi, Human
Z04462	FGFR4 beta[Biotin], His & Avi, Human
Z04657	FGFR3 alpha (IIIb) [Biotin], His, Mouse
Z05295	FGFR1 beta (IIIc), His & Avi, Human
Z05296	FGFR2 beta (IIIb) Domain, Avi, Human
Z05297	FGFR2 beta (IIIb) Domain hFc Chimera, Human
Z05298	FGFR3 alpha (IIIb), His & Avi, Human
Z05299	FGFR4 beta, His & Avi, Human
Z06121	FGFR3 alpha (IIIb), His, Mouse
Z06438	FGFR4, His, Rhesus macaque

## Product List - Fc Receptors

Cat. No.	Product Name
Z04080	Fc gamma RIIA/CD32a (H167)[Biotin], His & Avi, Human
Z04081	Fc gamma RIIB/CD32b[Biotin], His & Avi, Human
Z04082	Fc gamma RIIB/CD32b[Biotin], His & Avi, Human
Z04082	Fc gamma RIIIA/CD16a (F176)[Biotin], His & Avi, Human
Z04131	Fc gamma RIIA/CD32a, His, Cynomolgus
Z04250	Fc gamma RIIA/CD32a (H167), His & Avi, Human
Z04251	Fc gamma RIIB/CD32b, His & Avi, Human
Z04252	Fc gamma RIIIA/CD16a (F176), His & Avi, Human
Z04337	Fc gamma RIIB/CD32b, His, Mouse
Z04363	Fc gamma RIII/CD16[Biotin], His & Avi, Cynomolgus
Z04449	Fc gamma RI/CD64[Biotin], His & Avi, Human
Z04450	Fc gamma RIIA/CD32a (R167)[Biotin], His & Avi, Human
Z04451	Fc gamma RIIIA/CD16a (V176)[Biotin], His & Avi, Human
Z04452	Fc gamma RIIB/CD16b (NA1)[Biotin], His & Avi, Human
Z04453	Fc gamma RIIB/CD16b (NA2)[Biotin], His & Avi, Human
Z04655	Fc gamma RIII/CD16[Biotin], His & Avi, Mouse
Z04787	Fc gamma RIIB, His, Cynomolgus
Z04788	Fc gamma RIII/CD16, His, Cynomolgus
Z05275	Fc gamma RI/CD64, His & Avi, Human
Z05276	Fc gamma RIIA/CD32a (R167), His & Avi, Human
Z05277	Fc gamma RIIIA/CD16a (V176) Domain 2 mFc Chimera, Human
Z05278	Fc gamma RIIIA/CD16a (V176), His & Avi, Human
Z05279	Fc gamma RIIB/CD16b (NA1), His, Human
Z05280	Fc gamma RIIB/CD16b (NA2), His & Avi, Human
Z06115	Fc gamma RI/CD64, His, Mouse
Z06116	Fc gamma RIII/CD16, His, Mouse
Z06117	Fc gamma RIV/CD16-2, His, Mouse
Z04354	FcRn, His, Rat
Z04379	FcRn[Biotin], His & Avi, Cynomolgus/Rhesus macaque
Z04456	FcRn[Biotin], His & Avi, Human
Z04656	FcRn[Biotin], His & Avi, Mouse
Z04951	FcRn, His, Cynomolgus/Rhesus macaque
Z05285	FcRn, His, Human
Z06119	FcRn, His, Mouse
Z05273	Fc epsilon RI alpha/FCER1a, His, Human
Z05274	Fc epsilon RI alpha/FCER1a hFc Chimera, Human
Z06114	Fc Epsilon RI alpha/FCER1a hFc Chimera, Mouse
Z05415	IgG1 Fc, Human
Z05416	IgG4 Fc, Human
Z06177	IgG1 Fc, Mouse
Z06178	IgG2a Fc, Mouse
Z06179	IgG2C, Mouse
Z06410	IgG, Rabbit
Z04058	CD23/Fc epsilon RII[Biotin], His & Avi, Human
Z04172	CD23/Fc epsilon RII, His, Human

## Product List - MHC Proteins

Cat. No.	Product Name
Z06458	HLA-G&B2M&Peptide (RIIPRHLQL) Monomer[Biotin], His & Avi, Cynomolgus
Z06459	HLA-A*02:01&B2M&AFP (FMNKFIYEI) Monomer[Biotin], His & Avi, Human
Z06460	HLA-A*02:01&B2M&AFP (PLFQVPEPV) Monomer[Biotin], His & Avi, Human
Z06461	HLA-A*02:01&B2M&CMV pp65 (NLVPMVATV) Monomer[Biotin], His & Avi, Human
Z06462	HLA-A*02:01&B2M&CMVpp65 (NLVPMVATV) Monomer[Biotin], His & Avi, Human
Z06463	HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Monomer[Biotin], His & Avi, Human
Z06464	HLA-A*02:01&B2M&HBV (FLLTRILT) Monomer[Biotin], His & Avi, Human
Z06465	HLA-A*02:01&B2M&HPV16 E7 (YMLDLQPET) Monomer[Biotin], His & Avi, Human
Z06468	HLA-A*02:01&B2M&LMP2 (CLGGLLTMV) Monomer[Biotin], His & Avi, Human
Z06469	HLA-A*02:01&B2M&MAGE-A1 (KVLEYVIKV) Monomer[Biotin], His & Avi, Human
Z06470	HLA-A*02:01&B2M&MAGE-A10 (GLYDGM EHL) Monomer[Biotin], His & Avi, Human
Z06472	HLA-A*02:01&B2M&MAGE-A3 (KVAELVHFL) Monomer[Biotin], His & Avi, Human
Z06473	HLA-A*02:01&B2M&MAGE-A4 (GVYDGREHTV) Monomer[Biotin], His & Avi, Human
Z06474	HLA-A*02:01&B2M&MAGE-A4 (KMLEHVVRV) Monomer[Biotin], His & Avi, Human
Z06475	HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Monomer[Biotin], His & Avi, Human
Z06476	HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQV) Monomer[Biotin], His & Avi, Human
Z06477	HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer[Biotin], His & Avi, Human
Z06480	HLA-A*02:01&B2M&P53 WT (HMTEVVRRC) Monomer[Biotin], His & Avi, Human
Z06481	HLA-A*02:01&B2M&PRAME (ALYVDSLFFL) Monomer[Biotin], His & Avi, Human
Z06482	HLA-A*02:01&B2M&PRAME (SLLQHLIGL) Monomer[Biotin], His & Avi, Human
Z06483	HLA-A*02:01&B2M&Survivin (LMLGEFLKL) Monomer[Biotin], His & Avi, Human
Z06484	HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Monomer[Biotin], His & Avi, Human
Z06485	HLA-A*02:03&B2M&AFP (FMNKFIYEI) Monomer[Biotin], His & Avi, Human
Z06486	HLA-A*03:01&B2M&gp100 (ALLAVGATK) Monomer[Biotin], His & Avi, Human
Z06487	HLA-A*03:01&B2M&KRAS G12V (VVGAVGVGK) Monomer[Biotin], His & Avi, Human
Z06488	HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Monomer[Biotin], His & Avi, Human
Z06489	HLA-A*03:01&B2M&KRAS WT (VVVGAGGVGK) Monomer[Biotin], His & Avi, Human
Z06490	HLA-A*11:01&B2M&HPV16 E7 (IVCPICSQK) Monomer[Biotin], His & Avi, Human
Z06491	HLA-A*11:01&B2M&KRAS G12A (VVVGAAGVGK) Monomer[Biotin], His & Avi, Human
Z06492	HLA-A*11:01&B2M&KRAS G12C (VVVGACGVGK) Monomer[Biotin], His & Avi, Human
Z06493	HLA-A*11:01&B2M&KRAS G12D (VVGADGVGK) Monomer[Biotin], His & Avi, Human
Z06494	HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) Monomer[Biotin], His & Avi, Human
Z06495	HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) Monomer[Biotin], His & Avi, Human
Z06496	HLA-A*11:01&B2M&KRAS G12R (VVVGARGVGK) Monomer[Biotin], His & Avi, Human

Cat. No.	Product Name
Z06497	HLA-A*11:01&B2M&KRAS G12S (VVVGASGVGK) Monomer[Biotin], His & Avi, Human
Z06499	HLA-A*11:01&B2M&KRAS G12V (VVGAVGVGK) Monomer[Biotin], His & Avi, Human
Z06501	HLA-A*11:01&B2M&KRAS G12V (VVVGAVGVGK) Monomer[Biotin], His & Avi, Human
Z06503	HLA-A*11:01&B2M&KRAS WT (VVVGAGGVGK) Monomer[Biotin], His & Avi, Human
Z06504	HLA-A*11:01&B2M&KRAS WT (VVVGAGGVGK) Monomer[Biotin], His & Avi, Human
Z06505	HLA-A*11:01&B2M&LMP2 (SSCSSCPLTK) Monomer[Biotin], His & Avi, Human
Z06506	HLA-A*24:02&B2M&GP100 Intron 4 (VYFFLPDHL) Monomer[Biotin], His & Avi, Human
Z06507	HLA-A*24:02&B2M&MAGE-A3 (IMPKAGLLI) Monomer[Biotin], His & Avi, Human
Z06508	HLA-A*24:02&B2M&Survivin 2B (AYACNTSTL) Monomer[Biotin], His & Avi, Human
Z06509	HLA-C*03:04&B2M&KRAS G12D (GADGVGKSAL) Monomer[Biotin], His & Avi, Human
Z06510	HLA-E*01:03&B2M&EBV LMP1 (GGDPLHPTL) Monomer[Biotin], His & Avi, Human
Z06511	HLA-E*01:03&B2M&Peptide (VMAPRTLVL) Monomer[Biotin], His & Avi, Human
Z06512	HLA-E*01:03&B2M&Peptide (VMAPRTLVL) Tetramer[Biotin], His & Avi, Human
Z06513	HLA-G&B2M&Peptide (RIIPRHLQL) Monomer[Biotin], His & Avi, Human
Z06522	HLA-G&B2M&Peptide (RIIPRHLQL) Monomer[Biotin], His & Avi, Rhesus macaque
Z06523	Chimeric HLA-A*02:01 (ma3) &B2M&LMP2 (CLGGLLTMV) Monomer, His & Avi, Human&Mouse
Z06524	Chimeric HLA-A*02:01 (ma3) &B2M&LMP2 (CLGGLLTMV) Tetramer, His & Avi, Human&Mouse
Z06525	Chimeric HLA-A*02:01 (ma3) &B2M&WT-1 (RMFPNAPYL) Monomer, His & Avi, Human&Mouse
Z06526	Chimeric HLA-A*02:01 (ma3) &B2M&WT-1 (RMFPNAPYL) Tetramer, His & Avi, Human&Mouse
Z06535	HLA-G&B2M&Peptide (RIIPRHLQL) Monomer, His & Avi, Cynomolgus
Z06536	HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer, His & Avi, Cynomolgus
Z06544	HLA-A*02:01&B2M&MART-1 (ELAGILTV) Monomer, His & Avi, Human
Z06545	HLA-A*01:01&B2M&CT83 (NTDNNLAVY) Monomer, His & Avi, Human
Z06546	HLA-A*01:01&B2M&CT83 (NTDNNLAVY) Tetramer, His & Avi, Human
Z06547	HLA-A*01:01&B2M&DSG3 (YTDNWLAVY) Monomer, His & Avi, Human
Z06548	HLA-A*01:01&B2M&MAGE-A3 (EVDPIGHLY) Monomer, His & Avi, Human
Z06549	HLA-A*01:01&B2M&MAGE-A3 (EVDPIGHLY) Tetramer, His & Avi, Human
Z06550	HLA-A*02:01&B2M&AFP (FMNKFIYEI) Monomer, His & Avi, Human
Z06551	HLA-A*02:01&B2M&AFP (FMNKFIYEI) Tetramer, His & Avi, Human
Z06552	HLA-A*02:01&B2M&AFP (PLFQVPEPV) Monomer, His & Avi, Human
Z06553	HLA-A*02:01&B2M&AFP (PLFQVPEPV) Tetramer, His & Avi, Human
Z06554	HLA-A*02:01&B2M&CMV pp65 (NLVPMVATV) Monomer, His & Avi, Human
Z06555	HLA-A*02:01&B2M&CMV pp65 (NLVPMVATV) Tetramer, His & Avi, Human
Z06558	HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Monomer, His & Avi, Human

Cat. No.	Product Name
Z06559	HLA-A*02:01&B2M&GP100 (YLEPGPVTA) Tetramer, His & Avi, Human
Z06560	HLA-A*02:01&B2M&HBV (FLLTRILT) Monomer, His & Avi, Human
Z06561	HLA-A*02:01&B2M&HBV (FLLTRILT) Tetramer, His & Avi, Human
Z06562	HLA-A*02:01&B2M&HIV Gag (SLYNTVATL) Monomer, His & Avi, Human
Z06563	HLA-A*02:01&B2M&HPV 16 E6 (KLPQLCTEL) Monomer, His & Avi, Human
Z06565	HLA-A*02:01&B2M&HPV16 E7 (YMLDLQPET) Monomer, His & Avi, Human
Z06566	HLA-A*02:01&B2M&HPV16 E7 (YMLDLQPET) Tetramer, His & Avi, Human
Z06568	HLA-A*02:01&B2M&LMP2 (CLGGLTMV) Monomer, His & Avi, Human
Z06569	HLA-A*02:01&B2M&LMP2 (CLGGLTMV) Tetramer, His & Avi, Human
Z06570	HLA-A*02:01&B2M&MAGE-A1 (KVLEYVIKV) Monomer, His & Avi, Human
Z06571	HLA-A*02:01&B2M&MAGE-A1 (KVLEYVIKV) Tetramer, His & Avi, Human
Z06572	HLA-A*02:01&B2M&MAGE-A10 (GLYDGMEHL) Monomer, His & Avi, Human
Z06573	HLA-A*02:01&B2M&MAGE-A10 (GLYDGMEHL) Tetramer, His & Avi, Human
Z06574	HLA-A*02:01&B2M&MAGE-A4 (GVYDGREHTV) Monomer, His & Avi, Human
Z06575	HLA-A*02:01&B2M&MAGE-A4 (GVYDGREHTV) Tetramer, His & Avi, Human
Z06576	HLA-A*02:01&B2M&MAGE-A4 (KVLEHVVRV) Monomer, His & Avi, Human
Z06577	HLA-A*02:01&B2M&MART-1 (ELAGIGILTV) Tetramer, His & Avi, Human
Z06579	HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Monomer, His & Avi, Human
Z06580	HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Tetramer, His & Avi, Human
Z06582	HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQV) Monomer, His & Avi, Human
Z06583	HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQV) Tetramer, His & Avi, Human
Z06584	HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer, His & Avi, Human
Z06585	HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer, His & Avi, Human
Z06586	HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Tetramer, His & Avi, Human
Z06588	HLA-A*02:01&B2M&P53 WT (HMTEVVRRC) Monomer, His & Avi, Human
Z06589	HLA-A*02:01&B2M&P53 WT (HMTEVVRRC) Tetramer, His & Avi, Human
Z06590	HLA-A*02:01&B2M&PRAME (ALYVDSLFFL) Monomer, His & Avi, Human
Z06591	HLA-A*02:01&B2M&PRAME (ALYVDSLFFL) Tetramer, His & Avi, Human
Z06592	HLA-A*02:01&B2M&PRAME (SLLQHHLIGL) Monomer, His & Avi, Human
Z06593	HLA-A*02:01&B2M&PRAME (SLLQHHLIGL) Tetramer, His & Avi, Human
Z06594	HLA-A*02:01&B2M&Survivin (LMLGEFLKL) Monomer, His & Avi, Human
Z06595	HLA-A*02:01&B2M&Survivin (LMLGEFLKL) Tetramer, His & Avi, Human
Z06598	HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Monomer, His & Avi, Human
Z06599	HLA-A*02:01&B2M&WT-1 (RMFPNAPYL) Tetramer, His & Avi, Human
Z06600	HLA-A*02:03&B2M&AFP (FMNKFIYEI) Monomer, His & Avi, Human

Cat. No.	Product Name
Z06601	HLA-A*02:03&B2M&AFP (FMNKFIYEI) Tetramer, His & Avi, Human
Z06602	HLA-A*03:01&B2M&gp100 (ALLAVGATK) Monomer, His & Avi, Human
Z06603	HLA-A*03:01&B2M&gp100 (ALLAVGATK) Tetramer, His & Avi, Human
Z06604	HLA-A*03:01&B2M&KRAS G12V (VVGAVGVGK) Monomer, His & Avi, Human
Z06605	HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Monomer, His & Avi, Human
Z06606	HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer, His & Avi, Human
Z06607	HLA-A*03:01&B2M&KRAS WT (VVVGAGGVGK) Monomer, His & Avi, Human
Z06608	HLA-A*03:01&B2M&KRAS WT (VVVGAGGVGK) Tetramer, His & Avi, Human
Z06609	HLA-A*11:01&B2M&HPV16 E7 (IVCPICSQK) Monomer, His & Avi, Human
Z06610	HLA-A*11:01&B2M&HPV16 E7 (IVCPICSQK) Tetramer, His & Avi, Human
Z06611	HLA-A*11:01&B2M&KRAS G12A (VVVGAAGVGK) Monomer, His & Avi, Human
Z06612	HLA-A*11:01&B2M&KRAS G12A (VVVGAAGVGK) Tetramer, His & Avi, Human
Z06613	HLA-A*11:01&B2M&KRAS G12C (VVVGACGVGK) Monomer, His & Avi, Human
Z06614	HLA-A*11:01&B2M&KRAS G12C (VVVGACGVGK) Tetramer, His & Avi, Human
Z06616	HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) Monomer, His & Avi, Human
Z06617	HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) Monomer, His & Avi, Human
Z06618	HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) Tetramer, His & Avi, Human
Z06619	HLA-A*11:01&B2M&KRAS G12R (VVVGARGVGK) Monomer, His & Avi, Human
Z06620	HLA-A*11:01&B2M&KRAS G12R (VVVGARGVGK) Tetramer, His & Avi, Human
Z06621	HLA-A*11:01&B2M&KRAS G12S (VVVGASGVGK) Monomer, His & Avi, Human
Z06622	HLA-A*11:01&B2M&KRAS G12S (VVVGASGVGK) Tetramer, His & Avi, Human
Z06624	HLA-A*11:01&B2M&KRAS G12V (VVGAVGVGK) Monomer, His & Avi, Human
Z06625	HLA-A*11:01&B2M&KRAS G12V (VVGAVGVGK) Tetramer, His & Avi, Human
Z06627	HLA-A*11:01&B2M&KRAS G12V (VVVGAVGVGK) Monomer, His & Avi, Human
Z06628	HLA-A*11:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer, His & Avi, Human
Z06630	HLA-A*11:01&B2M&KRAS WT (VVVGAGGVGK) Monomer, His & Avi, Human
Z06631	HLA-A*11:01&B2M&KRAS WT (VVVGAGGVGK) Tetramer, His & Avi, Human
Z06632	HLA-A*11:01&B2M&LMP2 (SSCSSCPLTK) Monomer, His & Avi, Human
Z06633	HLA-A*11:01&B2M&LMP2 (SSCSSCPLTK) Tetramer, His & Avi, Human
Z06634	HLA-A*24:02&B2M&GP100 Intron 4 (VYFFLPDHL) Monomer, His & Avi, Human
Z06635	HLA-A*24:02&B2M&MAGE-A3 (IMPKAGLLI) Monomer, His & Avi, Human
Z06636	HLA-A*24:02&B2M&MAGE-A3 (IMPKAGLLI) Tetramer, His & Avi, Human
Z06637	HLA-A*24:02&B2M&Survivin 2B (AYACNTSTL) Monomer, His & Avi, Human
Z06638	HLA-A*24:02&B2M&Survivin 2B (AYACNTSTL) Tetramer, His & Avi, Human
Z06639	HLA-C*03:04&B2M&KRAS G12D (GADGVGKSAL) Monomer, His & Avi, Human

Cat. No.	Product Name
Z06640	HLA-C*03:04&B2M&KRAS G12D (GADGVGKSAL) Tetramer, His & Avi, Human
Z06643	HLA-E*01:03&B2M&EBV LMP1 (GGDPHLPTL) Monomer, His & Avi, Human
Z06644	HLA-E*01:03&B2M&Peptide (VMAPKTLVL) Monomer Negative Control, His & Avi, Human
Z06645	HLA-E*01:03&B2M&Peptide (VMAPRTLVL) Monomer, His & Avi, Human
Z06646	HLA-E*01:03&B2M&Peptide (VMAPRTLVL) Tetramer, His & Avi, Human
Z06648	HLA-G&B2M&Peptide (RIIPRHLQL) Monomer, His & Avi, Human
Z06649	HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer, His & Avi, Human
Z06678	HLA-G&B2M&Peptide (RIIPRHLQL) Monomer, His & Avi, Rhesus macaque
Z06679	HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer, His & Avi, Rhesus macaque
Z06818	HLA-A*02:01&B2M&Survivin (LTLGEFLKL) Monomer[Biotin], His & Avi, Human
Z06815	HLA-A*02:01&B2M&MART-1 (ELAGIGILTV) Monomer [Biotin], His&Avi, Human
Z06814	HLA-A*02:01&B2M&Survivin (LTLGEFLKL) Tetramer, His&Avi, Human
Z06813	HLA-A*01:01&B2M&CT83 (NTDNNLAVY) Monomer [Biotin], His&Avi, Human
Z06812	HLA-A*01:01&B2M&MAGE-A3 (EVDPIGHLY) Monomer [Biotin], His&Avi, Human

## Cytokines Products

GenScript offers a wide and comprehensive range of cytokines. With excellent batch-to-batch consistency, significant bioactivity, and extremely low endotoxin levels, proteins from GenScript demonstrate exceptional and reliable performance in stem cell, immune cell, and organoid culture, providing solid assurance for customers.

### Features



1500+ Cytokines  
10+ Species



100% Cell-based  
Verification  
100% Quality Control

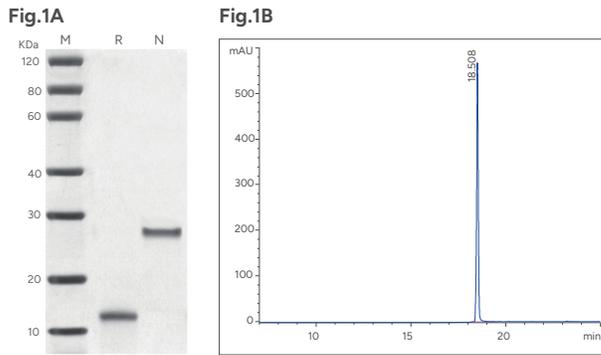


Batch-to-batch  
consistency



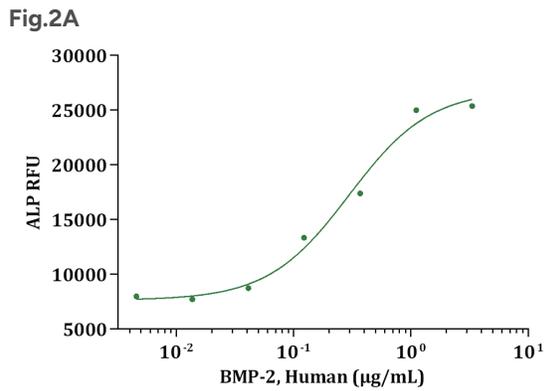
Stable and long  
shelf-life of 3 years

### High Purity verified by HPLC/SDS-PAGE

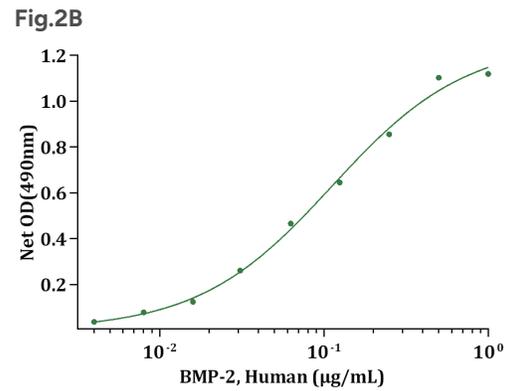


2  $\mu$ g of BMP-2, Human (Cat. No. Z02913) was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining (Left). The purity is > 98% determined by RP-HPLC (Right)

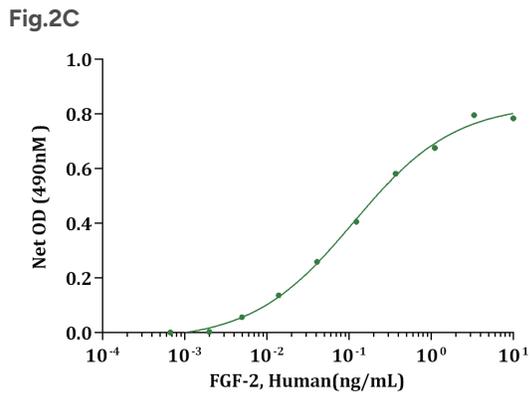
### Excellent activity verified by Cell-Based Assay



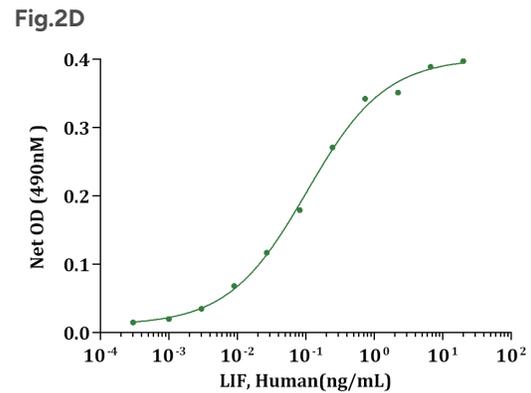
BMP-2, Human (Cat. No. Z02913) induce alkaline phosphatase production by C2C12 cells. The  $ED_{50}$  for this effect is typically 0.10-0.80  $\mu$ g/mL.



BMP-2, Human (Cat. No. Z02913) induce alkaline phosphatase production by ATDC5 cells. The  $ED_{50}$  for this effect is typically 0.07-0.20  $\mu$ g/mL.



FGF-basic (154 aa), Human (Cat. No. Z03116) stimulates cell proliferation of Balb/3T3 cells. The  $ED_{50}$  for this effect is 0.1 ng/mL.



LIF, Human (Cat. No. Z02681) stimulates cell proliferation of TF-1 cells. The  $ED_{50}$  for this effect is 0.09 ng/mL.

Excellent lot-to-lot consistency

Fig.3A

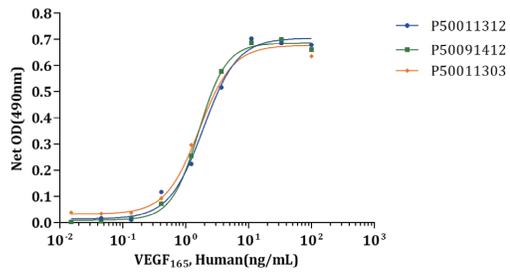
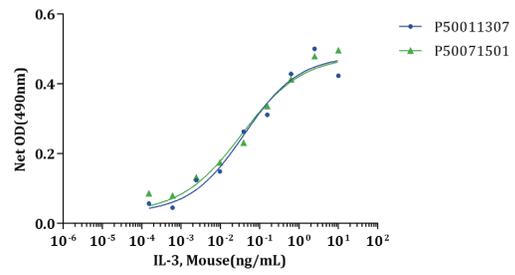


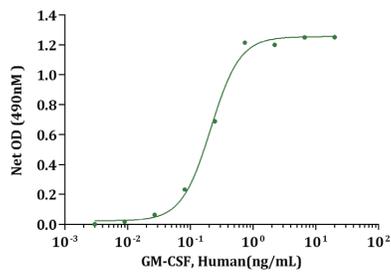
Fig.3B



VEGF<sub>165</sub> Human (Cat. No. Z02689) and IL-3, Mouse (Cat. No. Z03111) showed almost the same ED<sub>50</sub> value between different lots.

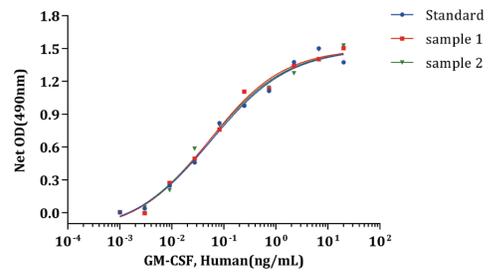
High Quality (Stored at RT for 1 month)

Fig.4A



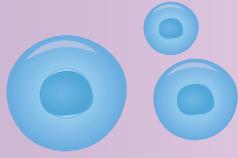
GM-CSF, Human (Cat. No. Z02695) stimulates cell proliferation of TF-1 cells. The ED<sub>50</sub> for this effect is less than 0.5 ng/mL.

Fig.4B



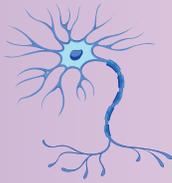
Activity of GM-CSF, Human (Cat. No. Z02695). ED<sub>50</sub>=0.11 ng/mL has no significant change after stored at room temperature for 1 month.

## Product List - Stem cell culture



Embryonic stem cell culture

FGF-basic	Z03116/Z03166	BAFF	Z02976
LIF	Z02681	BDNF	Z03208
BMP-4	Z02750	IGF-1	Z03017
Activin A	Z03814	Heregulin	Z03321
TGF- $\beta$ 1	Z03411	Noggin	Z03212
EGF	Z00333	TPO	Z03434
Beta-NGF	Z05081	KGF	Z03047
HGF	Z03229	FGF-4	Z02984



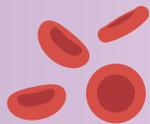
Neural stem cell culture

EGF	Z00333	FGF-basic	Z03116/Z03166
FGF-basic	Z03116/Z03166	IGF-I	Z03017
BDNF	Z03208	TGF- $\beta$ 1	Z03411
CNTF	Z03139	Activin A	Z03814
GDNF	Z03387	FGF-8	Z02989
PDGF	Z02529	BMP-2	Z02913
VEGF	Z02689		



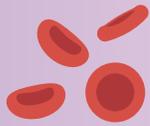
Mesenchymal stem cell

PDGF-BB	Z03707/Z02529
FGF-basic	Z03116/Z03166
TGF- $\beta$ 1	Z03411
EGF	Z02691/Z03368
HB-EGF	Z02938/Z03142/Z03291
FGF-basic	Z03116/Z03166
LIF	Z02681
IL-8/CXCL8 (77aa), Human	Z03138/Z03262



Hematopoietic stem cell

SCF	Z05116/Z02997/Z03110
Flt-3L	Z02926
G-CSF	Z02974/Z02980
GM-CSF	Z02694/Z02983/Z02695
IL-3	Z02991/Z03156
IL-6	Z03034/Z03134
EPO	Z02975
TPO	Z03434
IGF-I	Z03017
IGF-II	Z03147
HGF	Z03229
PDGF-DD	Z03195
PDGF-BB	Z03707/Z02529
PDGF-CC	Z03080



## Hematopoietic stem cell

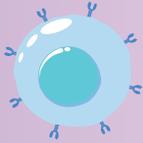
TGF-β1	Z03411
TGF-β2	Z03429
TGF-β3	Z03430
TNF-α	Z01001/Z02685/Z02682
TNF-β	Z03375
LIF	Z02681
IFN-α 1b/IFN-α 2a/IFN-α 2b	Z02866/Z03003/Z03002
IFN-β	Z03109
IFN-γ	Z02986/Z02915
Fractalkine/CX3CL1	Z02828
MCP-3/CCL7	Z03235
CXCL11	Z03579
Exodus-2/CCL21	Z02843
TECK/CCL25	Z02847
GRO-γ/CXCL3	Z02819
RANTES/CCL5	Z03238
MIP-3α/CCL20	Z02842
MIG/CXCL9	Z02822
MIP-1α/CCL3	Z03574
GRO alpha/CXCL1	Z03303
GRO beta/CXCL2	Z03304
GCP-2/CXCL6	Z03700
TARC/CCL17	Z02840
MIP-3α/CCL20	Z03258/Z03272
NAP-2/CXCL7	Z02821
PF-4/CXCL4	Z03026
SDF-1β/CXCL12	Z02897
BCA-1/CXCL13	Z02826
MIP-4/CCL18	Z02841
RANTES/CCL5	Z02832
Eotaxin/CCL11	Z02835
SDF-1α/CXCL12	Z02825
MCP-1/CCL2	Z03292
IL-8/CXCL8 (77aa)	Z03138/Z03262
IP-10/CXCL10	Z02971
Fractalkine/CX3CL1	Z03305
VEGF-165	Z02689/Z03073
Shh (C24II)	Z03067



Induced pluripotent stem cells (iPSCs)

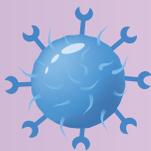
FGF-basic	Z03116/Z03166	PDGF-DD	Z03195
TGF-β1	Z03411	PDGF-BB	Z03707/Z02529
TGF-β2	Z03429	PDGF-CC	Z03080
TGF-β3	Z03430	Vitronectin	Z05957
EGF	Z02691/Z03368	HGF	Z03229
LIF	Z02681	IL-1β	Z02922/Z02978
Activin A	Z03814	OSM	Z03068
Noggin	Z03212	TPO	Z03434
Laminin 521	Z03817	HB-EGF	Z02938/Z03142/ Z03291

## Product List - Immune cell culture



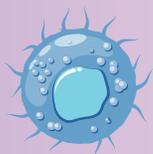
T cell culture

IL-2	Z00368/Z03074	TGF-β1	Z03411
IL-7	Z02704/Z03109	TGF-β2	Z03429
IL-15	Z03308	TGF-β3	Z03430
IL-12	Z03023	GM-CSF	Z02694/Z02983
IL-4	Z02925	IL-21	Z03076/Z02715
IFN-γ	Z02986/Z02915		



CIK cell culture

IL-2	Z00368/Z03074
IFN-γ	Z02986/Z02915
IL-1α	Z02698
GM-CSF	Z02694/Z02983
TNF-α	Z01001/Z02685/Z02682
IL-17A	Z03228
IL-10	Z03121
MIG/CXCL9, Human	Z02822
IP-10/CXCL10, Human	Z02971
CXCL11	Z03579
EGF	Z00333
MCP-1/CCL2, Human	Z03292
CXCL16, Mouse	Z02853



### NK cell culture

IL-2	Z00368/Z03074
IL-7	Z02704/Z03109
IL-15	Z03308
IL-21	Z03076/Z02715
IL-12	Z03023
IL-18	Z05450
IFN- $\gamma$	Z02986/Z02915
MIG/CXCL9	Z02822
IP-10/CXCL10	Z02971
CXCL11, Human	Z03579
Anti-Human CD3 Antibody (OKT3), mAb, Mouse	A02199
4-1BBL/TNFSF9, His, Human	Z03653
MICA-hFc	Z05648
MICA-His Tag	Z05649
IL-6	Z03034/Z03134
SCF	Z02692
TPO	Z03434
Flt-3L	Z02926



### DC cell culture

GM-CSF	Z02694/Z02983
IL-4	Z02925
TNF- $\alpha$	Z01001/Z02685/Z02682
IL-1 $\beta$	Z02922/Z02978
IL-6	Z03034/Z03134
CD40L/CD154/TRAP	Z02022
IL-10	Z03121

## Product List - Organoid culture

	Protein Name	Cat. No.	Product Name
Lung organoids	Noggin	Z03205	Noggin, Mouse(CHO-expressed)
		Z03212	Noggin, Human(CHO-expressed)
		Z03380	Noggin Fc Chimera, Human
		Z06283	Noggin hFc Chimera, Mouse
		Z06284	Noggin, His & Flag, Mouse
	RSPO1	Z03433	RSPO1, His, Human
		Z06333	R spondin 1/RSPO1, His, Mouse
	FGF-2	Z03016	FGF-basic, Mouse
		Z03116	FGF-basic (154aa), Human
		Z03166	FGF-basic (146aa), Human
		Z03193	FGF-basic, Rat
		Z03230	FGF-basic, Bovine
		Z03310	FGF-basic (145aa), Human
	FGF-4	Z02984	FGF-4, Human
	BMP-4	Z02750	BMP-4, Human
	FGF-7	Z03047	KGF/FGF-7, Human
		Z03154	KGF/FGF-7, Mouse
		Z03174	KGF/FGF-7, Human(CHO-expressed)
		Z05292	FGF-7/KGF, His, Human
	FGF-10	Z03155	FGF-10, Mouse
Z03314		FGF-10, Human	
Activin A	Z03814	Activin A, Human	
	Z05563	Latent Activin A, His, Human	
Pancreatic organoids	EGF	Z00333	EGF, Human
		Z02943	HB-EGF, Mouse
		Z02972	EGF, Mouse
		Z03118	EGF, Rat (CHO-expressed)
		Z03142	HB-EGF, Human
		Z03291	HB-EGF, Human
		Z03368	EGF, His, Human
		Z03377	EGF Fc Chimera, Human
	Noggin	Z03205	Noggin, Mouse(CHO-expressed)
		Z03212	Noggin, Human(CHO-expressed)
		Z03380	Noggin Fc Chimera, Human

	Protein Name	Cat. No.	Product Name	
Pancreatic organoids	Noggin	Z06283	Noggin hFc Chimera, Mouse	
		Z06284	Noggin, His & Flag, Mouse	
	FGF-10	Z03155	FGF-10, Mouse	
		Z03314	FGF-10, Human	
	RSPO1	Z03433	RSPO1, His, Human	
		Z06333	R spondin 1/RSPO1, His, Mouse	
	Wnt-3a	Z03815	Wnt-3a hFc Chimera, Human	
Prostate organoids	EGF	Z00333	EGF, Human	
		Z02943	HB-EGF, Mouse	
		Z02972	EGF, Mouse	
		Z03118	EGF, Rat (CHO-expressed)	
		Z03142	HB-EGF, Human	
		Z03291	HB-EGF, Human	
		Z03368	EGF, His, Human	
		Z03377	EGF Fc Chimera, Human	
	Noggin	Z03205	Noggin, Mouse(CHO-expressed)	
		Z03212	Noggin, Human(CHO-expressed)	
		Z03380	Noggin Fc Chimera, Human	
		Z06283	Noggin hFc Chimera, Mouse	
		Z06284	Noggin, His & Flag, Mouse	
	RSPO1	Z03433	RSPO1, His, Human	
		Z06333	R spondin 1/RSPO1, His, Mouse	
	FGF-2	Z03016	FGF-basic, Mouse	
		Z03116	FGF-basic (154aa), Human	
		Z03166	FGF-basic (146aa), Human	
		Z03193	FGF-basic, Rat	
		Z03230	FGF-basic, Bovine	
		Z03310	FGF-basic (145aa), Human	
	FGF-10	Z03155	FGF-10, Mouse	
		Z03314	FGF-10, Human	
	Activin A	Z03814	Activin A, Human	
		Z05563	Latent Activin A, His, Human	
	Mammary gland	EGF	Z00333	EGF, Human
			Z02943	HB-EGF, Mouse
Z02972			EGF, Mouse	

	Protein Name	Cat. No.	Product Name
Mammary gland	EGF	Z03118	EGF, Rat (CHO-expressed)
		Z03142	HB-EGF, Human
		Z03291	HB-EGF, Human
		Z03368	EGF, His, Human
		Z03377	EGF Fc Chimera, Human
	Noggin	Z03205	Noggin, Mouse(CHO-expressed)
		Z03212	Noggin, Human(CHO-expressed)
		Z03380	Noggin Fc Chimera, Human
		Z06283	Noggin hFc Chimera, Mouse
		Z06284	Noggin, His & Flag, Mouse
	RSPO1	Z03433	RSPO1, His, Human
		Z06333	R spondin 1/RSPO1, His, Mouse
	FGF-2	Z03016	FGF-basic, Mouse
		Z03116	FGF-basic (154aa), Human
		Z03166	FGF-basic (146aa), Human
		Z03193	FGF-basic, Rat
		Z03230	FGF-basic, Bovine
		Z03310	FGF-basic (145aa), Human
	FGF-10	Z03155	FGF-10, Mouse
		Z03314	FGF-10, Human
	Wnt-3a	Z03815	Wnt-3a hFc Chimera, Human
Heregulin	Z03321	Heregulin $\beta$ -1, Human	
Retinal organoids	Shh	Z02910	Shh, Human
		Z02990	Shh, Mouse
		Z03050	Shh (C25II), Mouse
		Z03067	Shh (C24II), Human
		Z05851	Sonic Hedgehog (Shh), Human
	Wnt-3a	Z03815	Wnt-3a hFc Chimera, Human
Inner ear organoids	FGF-2	Z03016	FGF-basic, Mouse
		Z03116	FGF-basic (154aa), Human
		Z03166	FGF-basic (146aa), Human
		Z03193	FGF-basic, Rat
		Z03230	FGF-basic, Bovine
		Z03310	FGF-basic (145aa), Human
	BMP-4	Z02750	BMP-4, Human

	Protein Name	Cat. No.	Product Name	
Intestinal epithelial organoids	EGF	Z00333	EGF, Human	
		Z02943	HB-EGF, Mouse	
		Z02972	EGF, Mouse	
		Z03118	EGF, Rat (CHO-expressed)	
		Z03142	HB-EGF, Human	
		Z03291	HB-EGF, Human	
		Z03368	EGF, His, Human	
		Z03377	EGF Fc Chimera, Human	
	Noggin	Z03205	Noggin, Mouse(CHO-expressed)	
		Z03212	Noggin, Human(CHO-expressed)	
		Z03380	Noggin Fc Chimera, Human	
		Z06283	Noggin hFc Chimera, Mouse	
		Z06284	Noggin, His & Flag, Mouse	
	RSPO1	Z03433	RSPO1, His, Human	
		Z06333	R spondin 1/RSPO1, His, Mouse	
	FGF-2	Z03016	FGF-basic, Mouse	
		Z03116	FGF-basic (154aa), Human	
		Z03166	FGF-basic (146aa), Human	
		Z03193	FGF-basic, Rat	
		Z03230	FGF-basic, Bovine	
		Z03310	FGF-basic (145aa), Human	
	FGF-4	Z02984	FGF-4, Human	
	BMP-4	Z02750	BMP-4, Human	
	Wnt-3a	Z03815	Wnt-3a hFc Chimera, Human	
	Gastric epithelial organoids	EGF	Z00333	EGF, Human
			Z02943	HB-EGF, Mouse
			Z02972	EGF, Mouse
			Z03118	EGF, Rat (CHO-expressed)
Z03142			HB-EGF, Human	
Z03291			HB-EGF, Human	
Z03368			EGF, His, Human	
Z03377			EGF Fc Chimera, Human	
FGF-10		Z03155	FGF-10, Mouse	
		Z03314	FGF-10, Human	
Noggin		Z03205	Noggin, Mouse(CHO-expressed)	

	Protein Name	Cat. No.	Product Name
Gastric epithelial organoids	Noggin	Z03212	Noggin, Human(CHO-expressed)
		Z03380	Noggin Fc Chimera, Human
		Z06283	Noggin hFc Chimera, Mouse
		Z06284	Noggin, His & Flag, Mouse
	RSPO1	Z03433	RSPO1, His, Human
		Z06333	R spondin 1/RSPO1, His, Mouse
	FGF-4	Z02984	FGF-4, Human
	BMP-4	Z02750	BMP-4, Human
	Wnt-3a	Z03815	Wnt-3a hFc Chimera, Human
	IGF	Z03017	IGF-I, Human
		Z03146	IGF-I, Rat
		Z03147	IGF-II, Human
		Z03178	IGF-I, Mouse
		Z05413	IGFI hFc Chimera, Human
		Z05414	IGFII hFc Chimera, Human
	Liver organoids	EGF	Z00333
Z02943			HB-EGF, Mouse
Z02972			EGF, Mouse
Z03118			EGF, Rat (CHO-expressed)
Z03142			HB-EGF, Human
Z03291			HB-EGF, Human
Z03368			EGF, His, Human
Z03377			EGF Fc Chimera, Human
Noggin		Z03205	Noggin, Mouse(CHO-expressed)
		Z03212	Noggin, Human(CHO-expressed)
	Z03380	Noggin Fc Chimera, Human	
	Z06283	Noggin hFc Chimera, Mouse	
	Z06284	Noggin, His & Flag, Mouse	
RSPO1	Z03433	RSPO1, His, Human	
	Z06333	R spondin 1/RSPO1, His, Mouse	
FGF-2	Z03016	FGF-basic, Mouse	
	Z03116	FGF-basic (154aa), Human	
	Z03166	FGF-basic (146aa), Human	
	Z03193	FGF-basic, Rat	
	Z03230	FGF-basic, Bovine	

	Protein Name	Cat. No.	Product Name
Liver organoids	FGF-2	Z03310	FGF-basic (145aa), Human
	FGF-4	Z02984	FGF-4, Human
	BMP-4	Z02750	BMP-4, Human
	HGF	Z03229	HGF, Human
	FGF-7	Z03047	KGF/FGF-7, Human
		Z03154	KGF/FGF-7, Mouse
		Z03174	KGF/FGF-7, Human(CHO-expressed)
		Z05292	FGF-7/KGF, His, Human
	BMP-2	Z02913	BMP-2, Human
	TGF- $\alpha$	Z03151	TGF- $\alpha$ , Human
		Z03332	TGF- $\alpha$ , Human
		Z05871	TGF-alpha hFc Chimera, Human
		Z06369	TGF-alpha hFc Chimera, Mouse
	FGF-10	Z03155	FGF-10, Mouse
Z03314		FGF-10, Human	
Wnt-3a	Z03815	Wnt-3a hFc Chimera, Human	
Kidney organoids	FGF-2	Z03016	FGF-basic, Mouse
		Z03116	FGF-basic (154aa), Human
		Z03166	FGF-basic (146aa), Human
		Z03193	FGF-basic, Rat
		Z03230	FGF-basic, Bovine
		Z03310	FGF-basic (145aa), Human
	BMP-4	Z02750	BMP-4, Human
	BMP-2	Z02913	BMP-2, Human
	BMP-7	Z02751	BMP-7, Human
	FGF-9	Z03033	FGF-9, Human
		Z03575	FGF-9, Mouse

	Protein Name	Cat. No.	Product Name
Brain organoids	FGF-2	Z03016	FGF-basic, Mouse
		Z03116	FGF-basic (154aa), Human
		Z03166	FGF-basic (146aa), Human
		Z03193	FGF-basic, Rat
		Z03230	FGF-basic, Bovine
		Z03310	FGF-basic (145aa), Human
	TGF- $\beta$	Z03411	TGF- $\beta$ 1, Human
		Z03429	TGF- $\beta$ 2, Human
		Z03430	TGF- $\beta$ 3, Human
		Z03431	TGF- $\beta$ 1, Mouse
		Z03432	TGF- $\beta$ 2, Mouse
		Z03779	TGF $\beta$ 1, Bovine
		Z05562	LAP (TGF beta 1), His, Human
		Z05565	Latent TGF beta 1/TGFB1, His, Human
		Z05566	Latent TGF beta 2/TGFB2, His, Human
		Z05567	Latent TGF beta 3, His, Human
		Z05630	Mature TGF beta 1, Human
		Z05631	Mature TGF beta 2, Human
		Z05632	Mature TGF beta 3, Human
		Z06239	Latent TGF beta 1/TGFB1, His, Mouse
	Z06369	TGF-alpha hFc Chimera, Mouse	
	BDNF	Z03208	BDNF, Human
		Z05971	BDNF, Human/Mouse/Rat
	GDNF	Z03170	GDNF, Mouse
		Z03387	GDNF, Human
	FGF-8	Z02989	FGF-8, Human
		Z03172	FGF-8a, Human
		Z03299	FGF-8e, Human
	BMP-7	Z02751	BMP-7, Human
	Shh	Z02910	Shh, Human
		Z02990	Shh, Mouse
		Z03050	Shh (C25II), Mouse
Z03067		Shh (C24II), Human	
Z05851		Sonic Hedgehog (Shh), Human	
Noggin	Z03205	Noggin, Mouse(CHO-expressed)	

	Protein Name	Cat. No.	Product Name
Brain organoids	Noggin	Z03212	Noggin, Human(CHO-expressed)
		Z03380	Noggin Fc Chimera, Human
		Z06283	Noggin hFc Chimera, Mouse
		Z06284	Noggin, His & Flag, Mouse
	EGF	Z00333	EGF, Human
		Z02943	HB-EGF, Mouse
		Z02972	EGF, Mouse
		Z03118	EGF, Rat (CHO-expressed)
		Z03142	HB-EGF, Human
		Z03291	HB-EGF, Human
		Z03368	EGF, His, Human
		Z03377	EGF Fc Chimera, Human
	DKK-1	Z03289	DKK-1, Mouse
		Z03462	DKK-1, Human
		Z05214	DKK1 C terminal Domain mFc Chimera, Human
		Z05215	DKK1 C terminal Domain hFc Chimera, Avi, Human
		Z05216	DKK1 N terminal Domain mFc Chimera, Human
		Z05217	DKK1 N terminal Domain hFc Chimera, Avi, Human
		Z05218	DKK1 hFc Chimera, Human
		Z05219	DKK1, His, Human



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