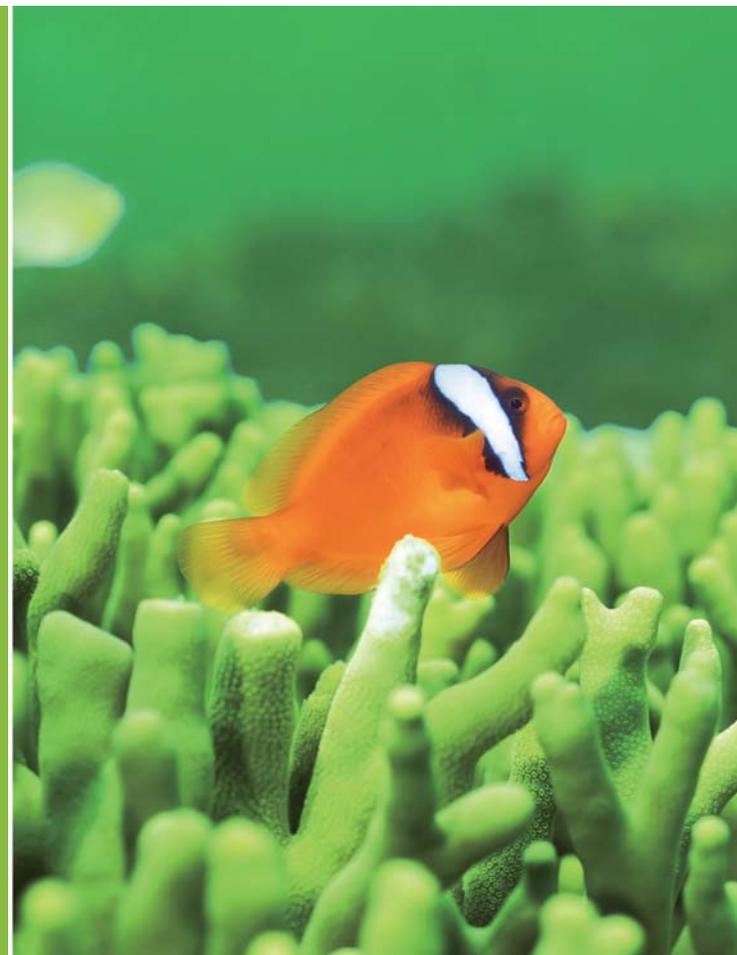


Protein Catalog

- 1 Enterokinase
- 2 Erythropoietin (EPO)
- 3 Tumor Necrosis Factor (TNF)
- 4 Bone Morphogenetic Protein (BMP)
- 5 Protein Markers
- 6 Express™ PAGE Gels
- 7 Endotoxin Detection & Removal Kits



All Correspondence

GenScript Corp.
120 Centennial Ave.
Piscataway, NJ 08854
US

Accounts Payable/Receivable

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For Proteins: protein@genscript.com

For Antibodies: antibody@genscript.com

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For Technical Support: support@genscript.com



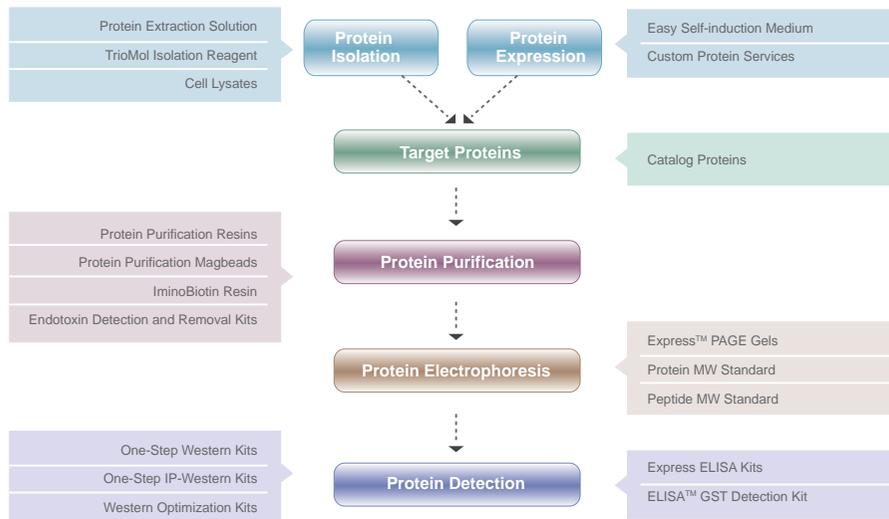
Your one-stop wet lab for biology!



Protein Catalog

Active, purified proteins have shown dramatic effects in the fields of functional and structural analysis, assay development, and drug candidate discovery. GenScript's advanced protein technology platform, based on our years of protein expression and purification experience, incorporates experienced staff and state-of-the-art equipment. GenScript has developed a broad spectrum of protein products, including protein isolation reagents, protein expression reagents, protein markers, protein purification resins and magbeads, and a variety of catalog proteins to provide our clients with a direct path to successful protein research projects. With GenScript's expertise and support, you have a strong and committed partner.

Product Spectrum:



GenScript constantly launches new protein products and updates its website. If prices and other relevant information presented here differ with that shown on the website, please refer to the correct information on the website.

http://www.genscript.com/Protein_Products.html

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Cytokine

>> Description:

Cytokines are a category of immunoactive proteins similar to hormones and neurotransmitters. They act as humoral regulators which modulate the functional activities of individual cells and tissues at nano- to picomolar concentrations either under normal or pathological conditions. In addition, they have autocrine, paracrine and endocrine effects. The cytokine family consists mainly of smaller, water-soluble proteins and glycoproteins with a mass between 8 and 30 kDa, including haemopoietin, interleukin, interferon, epidermal growth factor, tumour necrosis factor, transforming growth factor, chemokine, and others that are secreted by the cells of immune system to regulate immune response.

GenScript offers a comprehensive package of cytokine products which facilitate scientists' researching activities. It provides the scientists a quick and easy access to achieve discovery.

>> Product Overview:

Cat. No.	Product Name	Size	Price
Z00327	Bone Morphogenetic Protein (BMP)-2, human	1 mg	\$1,185.00
		50 µg	\$237.00
		10 µg	\$95.00
Z00330	Bone Morphogenetic Protein (BMP)-7, human	10 µg	\$180.00
		1 mg	\$480.00
Z00353	Interferon (IFN)-α 2b, human	50 µg	\$80.00
		10 µg	\$26.00
		1 mg	\$500.00
Z00357	Interferon (IFN)-γ, human	50 µg	\$105.00
		10 µg	\$39.00
		1 mg	\$480.00
Z00358	Interferon (IFN)-α 2a, human	50 µg	\$80.00
		10 µg	\$26.00
		1 mg	\$1,600.00
Z00367	Interleukin (IL)-1 Receptor Antagonist, human	50 µg	\$300.00
		10 µg	\$91.00
		1 mg	\$500.00
Z00368	Interleukin (IL)-2, human	50 µg	\$130.00
		10 µg	\$39.00
		10 µg	\$180.00
Z00370	Interleukin (IL)-4, human	1 mg	\$1,600.00
		50 µg	\$300.00
		10 µg	\$91.00
Z00372	Interleukin (IL)-6, human	1 mg	\$1,600.00
		50 µg	\$320.00
		10 µg	\$91.00
Z00374	Interleukin (IL)-10, human	1 mg	\$1,600.00
		50 µg	\$300.00
		10 µg	\$91.00
Z00375	Interleukin (IL)-11, human	1 mg	\$1,600.00
		50 µg	\$320.00
		10 µg	\$91.00
Z00377	Interleukin (IL)-15, human	1 mg	\$3,120.00
		50 µg	\$320.00
		10 µg	\$91.00
Z00384	Leukemia Inhibitory Factor (LIF), human	1 mg	\$3,120.00
		50 µg	\$400.00
		10 µg	\$140.00
Z00394	Pegylated Interferon (PEG-IFN)-α 2a, human	1 mg	\$3,960.00
		100 µg	\$700.00
		20 µg	\$350.00

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Cat. No.	Product Name	Size	Price
Z00404	Tumor Necrosis Factor alpha (TNF)-α (mutant), human	1 mg	\$1,560.00
		50 µg	\$260.00
		10 µg	\$91.00
Z00414	Tumor Necrosis Factor (TNF)-α, murine	2 µg	\$70.00
		20 µg	\$180.00
		1 mg	\$1,050.00
Z01001	Tumor Necrosis Factor (TNF)-α, human	50 µg	\$129.00
		10 µg	\$52.00
		1 mg	\$2,400.00
Z02019	Human Serum Albumin and Interferon (HSA-IFN)-α 2b	50 µg	\$480.00
		10 µg	\$130.00
		1 mg	\$3,600.00
Z02020	Pegylated Interferon-α 2b, human	50 µg	\$640.00
		10 µg	\$221.00
		1 mg	\$800.00
Z02022	CD40 (CD154) Ligand/TRAP, human	50 µg	\$130.00
		10 µg	\$50.00
		1 mg	\$2,000.00
Z02036	Interleukin (IL)-10, mouse	50 µg	\$390.00
		10 µg	\$125.00
		1 mg	\$2,300.00
Z02061	Interleukin (IL)-17, human	50 µg	\$250.00
		10 µg	\$75.00
		1 mg	\$1,600.00
Z02189	Interleukin (IL)-8 (3-79), human	50 µg	\$230.00
		10 µg	\$91.00
		1 mg	\$130.00
Z02193	Interleukin (IL)-1α, mouse	50 µg	\$390.00
		10 µg	\$234.00
		1 mg	\$2,340.00
Z02194	Interleukin (IL)-1β, mouse	50 µg	\$390.00
		10 µg	\$130.00
		1 mg	\$52.00
Z02195	Interleukin (IL)-8 (8-79)	50 µg	\$129.50
		10 µg	\$800.00
		1 mg	\$2,400.00
Z02196	Interleukin (IL)-16, human	50 µg	\$400.00
		10 µg	\$130.00
		1 mg	\$2,400.00
Z02197	Interleukin (IL)-22, mouse	50 µg	\$400.00
		10 µg	\$130.00
		1 mg	\$180.00
Z00333	Epidermal Growth Factor (EGF), human	50 µg	\$80.00
		10 µg	\$26.00
		10 µg	\$91.00
Z00335	Erythropoietin (EPO)-α, human	10 µg	\$91.00
Z00339	Fibroblast Growth Factor (FGF)-basic, human	10 µg	\$70.00
Z00341	Granulocyte Colony Stimulating Factor (G-CSF), CHO, human	2 µg	\$70.00
Z00342	Granulocyte Colony Stimulating Factor (G-CSF), human	1 mg	\$1,600.00
		50 µg	\$320.00
		10 µg	\$91.00

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Cytokine
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Cat. No.	Product Name	Size	Price
Z00349	Granulocyte Macrophage Colony Stimulating Factor (GM-CSF), human	1 mg	\$1,600.00
		50 µg	\$320.00
		10 µg	\$91.00
Z00350	Hepatocyte Growth Factor (HGF), human	10 µg	\$180.00
		2 µg	\$70.00
Z00362	Insulin-Like Growth Factor (IGF)-1, human	1 mg	\$480.00
		50 µg	\$80.00
		10 µg	\$26.00
Z00393	Pegylated Granulocyte Colony Stimulating Factor (PEG-G-CSF), human	1 mg	\$3,200.00
		50 µg	\$640.00
		10 µg	\$170.00
Z00400	Stem Cell Factor (SCF), human	1 mg	\$1,600.00
		50 µg	\$320.00
		10 µg	\$91.00
Z02001	Macrophage Colony Stimulating Factor (M-CSF), human	1 mg	\$3,000.00
		100 µg	\$340.00
Z02053	Fibroblast Growth Factor (FGF)-acidic, mouse	50 µg	\$129.00
		10 µg	\$52.00
Z02054	Fibroblast Growth Factor (FGF)-basic, mouse	50 µg	\$129.00
		10 µg	\$52.00
Z02187	Insulin Like Growth Factor (IGF)-1 (4-70), human	1 mg	\$480.00
		50 µg	\$80.00
		10 µg	\$26.00
Z02188	Long Arg ³ Insulin-like Growth Factor-I (Long-R ³ -IGF-I) (Receptor Grade), human	1 mg	\$480.00
		50 µg	\$80.00
		10 µg	\$26.00
Z02190	Granulocyte Macrophage Colony Stimulating Factor (GM-CSF), <i>P. Pichia</i> Derived (Sargramostim), human	1 mg	\$1,800.00
		50 µg	\$320.00
		10 µg	\$100.00
Z02191	Long Arg ³ Insulin-like Growth Factor-I (Long-R ³ -IGF-I) (Media Grade), human	1 mg	\$3,250.00
		50 µg	\$800.00
		10 µg	\$130.00
Z02198	Vascular Endothelial Growth Inhibitor (VEGI), human	50 µg	\$800.00
		10 µg	\$129.00

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Hormone:

» Description:

Hormones are produced by specialized glands and are carried by the blood throughout the entire body, and they function at sites other than their releasing locations.

GenScript Recombinant Mouse Growth Hormone is a single, non-glycosylated polypeptide chain containing 191 amino acids with a molecular mass of 22,000 Da.

Parathyroid Hormone is secreted as a linear protein consisting of 84 amino acids. Recombinant Human PTH is a single, non-glycosylated polypeptide chain containing 84 amino acids with molecular mass of 9,000 Da.

Human Glucagon-Like Peptide (GLP)-1 is a single, non-glycosylated polypeptide chain containing 30 amino acids with a molecular mass of 3,298.7 Da.

» Key Features:

- **Source:** *E. coli*
- **Purity:** Greater than 98.0% as determined by:
 1. Analysis of RP-HPLC
 2. Anion-exchange FPLC
 3. Analysis by reducing and non-reducing SDS-PAGE silver stained gel
- **Endotoxin Level:** Less than 0.1 ng/µg (1 IEU/µg) is determined by LAL test.
- **Quantitation:** Protein quantitation is carried out by two independent methods:
 1. UV spectroscopy at 280 nm
 2. RP-HPLC analysis

» Product Overview:

Cat. No.	Product Name	Size	Price
Z00212	Glucagon-Like Peptide (GLP)-1, human	50 µg	\$180.00
		10 µg	\$70.00
Z02021	Parathyroid Hormone (PTH) (1-84 PTH), human	1 mg	\$800.00
		50 µg	\$129.00
		10 µg	\$39.00
Z02192	Growth Hormone (GH), mouse	1 mg	\$1,300.00
		50 µg	\$200.00
		10 µg	\$78.00

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Cytokine
Hormone
Enzyme
Virus Antigen
Other Proteins
Protein
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Peptide
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Enzyme

>> Description:

Enzymes are biomolecules that catalyze (i.e. increase the rates of) chemical reactions¹¹. They serve a variety of functions inside the living organisms. Almost all processes in a biological cell require the presence of enzymes to occur at significant rates. And enzymes are diffusely used in the academic research and industry production.

Through years of experiences in satisfying customers' needs in the constantly changing technological fields, GenScript has developed many original enzyme products. GenScript's comprehensive line of enzymes includes protein modifying enzyme, DNA modifying enzyme, RNA modifying enzyme, and diversiform *Taq* DNA Polymerases.

1. Smith AD (Ed), *et al.* (1997). Oxford Dictionary of Biochemistry and Molecular Biology. Oxford University Press.

>> Product Overview:

Cat. No.	Product Name	Size	Price
Z00169	Heparanase (HPA)-1, human	100 ng	\$420.00
		5000 mg	\$1,320.96
Z02004	RNase A, bovine	1000 mg	\$330.24
		250 mg	\$99.08
Z02032	Moloney Murine Leukemia Virus (M-MLV) Reverse Transcriptase	10000 U	\$39.00
Z02038	Hercules Endonuclease	25000 U	\$130.00
Z02040	Moloney Murine Leukemia Virus (M-MLV) Reverse Transcriptase (RNase H-)	10000 U	\$59.00
Z02042	T4 Gene 32 Protein	100 µg	\$39.00
Z01003	Enterokinase, Light Chain, Porcine	100 IU	\$80.00
Z02199	Porcine Enterokinase, Lyophilized	100 IU	\$80.00
Z02003	Proteinase K	1 mg	\$77.96
Z02041	Ribonuclease Inhibitor	2,000 U	\$43.00
E00011	Uracil DNA Glycosylase	2,000 U	\$145.00
E00022	2X Quick Ligation Premix	50 rxns	\$96.00
E00043	Stabilized <i>Taq</i> DNA Polymerase	500 U	\$49.00
E00007	<i>Taq</i> DNA Polymerase	1,000 U	\$60.00
		50,000 U	\$2,700.00
E00012	<i>Taq</i> DNA Polymerase, concentrated	2,500 U	\$149.00
		100 U	\$39.00
E00041	<i>RealStart Taq</i> DNA Polymerase	250U	\$79.00

Virus Antigen:

>> Description:

GenScript provides a comprehensive array of virus antigen, including Cytomegalovirus, Epstein-Barr virus, Hepatitis A/.../E virus, Herpes Simplex virus, HIV, Human T-Lymphocyte virus, Rubella virus, SARS virus, Varicella Zoster virus, and so on. All the proteins serve as excellent antigens in ELISA and Western Blots and in the rapid detection of relative virus seroconverters with minimal specificity problems. The antigens have a purity level above 95% as determined by HPLC-C4, and 10% PAGE (Coomassie staining). They will remain stable for five years if stored frozen.

>> Product Overview:

Cat. No.	Product Name	Size	Price
Z00008	Cytomegalovirus (CMV) Pp38 (UL80a)	1 mg	\$420.00
Z00010	Cytomegalovirus (CMV) Pp65 (UL83)	1 mg	\$420.00
Z02026	Cytomegalovirus (CMV) Pp28 (UL99)	1 mg	\$420.00
Z02027	Cytomegalovirus (CMV) Pp150 (UL32)	1 mg	\$420.00
Z00018	Epstein-Barr Virus (HHV-4) p23	1 mg	\$420.00
Z02030	Epstein-Barr Virus (HHV-4) mosaic EBNA1	1 mg	\$420.00
Z02031	Epstein-Barr Virus (HHV-4) EA	1 mg	\$420.00
Z00005	Hepatitis A Virus (HAV) VP3	1 mg	\$420.00
Z00022	Hepatitis A Virus (HAV) P2C	1 mg	\$420.00
Z00023	Hepatitis A Virus (HAV) P2C-P3A	1 mg	\$420.00
Z00024	Hepatitis A Virus (HAV) P3C	1 mg	\$420.00
Z00025	Hepatitis A Virus (HAV) VP1	1 mg	\$420.00
Z00026	Hepatitis A Virus (HAV) VP1-P2A	1 mg	\$420.00
Z00028	Hepatitis A Virus (HAV) VP4-VP2	1 mg	\$420.00
Z00029	Hepatitis B Virus (HBV) Core	1 mg	\$420.00
Z00031	Hepatitis B Virus (HBV) HBe	1 mg	\$420.00
Z00042	Hepatitis C Virus (HCV) NS3	1 mg	\$630.00
Z00065	Hepatitis C Virus (HCV) NS3 Subtype 1c	1 mg	\$420.00
Z00068	Hepatitis C Virus (HCV) NS3 Subtype 2b	1 mg	\$420.00
Z00069	Hepatitis C Virus (HCV) NS3 Subtype 2c	1 mg	\$420.00
Z00076	Hepatitis C Virus (HCV) NS3 Subtype 5a	1 mg	\$420.00
Z00080	Hepatitis C Virus (HCV) NS3 Subtype 6a	1 mg	\$420.00
Z00081	Hepatitis C Virus (HCV) NS4 a+b (1658-1863)	1 mg	\$630.00
Z00100	Hepatitis C Virus (HCV) NS5 Genotype 1	1 mg	\$420.00
Z00102	Hepatitis C Virus (HCV) NS5 (2061-2302)	1 mg	\$420.00
Z00107	Hepatitis C Virus (HCV) NS5 Genotype 2	1 mg	\$420.00
Z00108	Hepatitis C Virus (HCV) NS5 Genotype 3	1 mg	\$420.00
Z00109	Hepatitis C Virus (HCV) NS5 Genotype 6	1 mg	\$420.00
Z00110	Hepatitis C Virus (HCV) NS5 Genotype 5	1 mg	\$420.00
		500 µg	\$735.00
Z00111	Hepatitis C Virus (HCV) NS5 Genotype 4	100 µg	\$210.00
Z00130	Hepatitis C Virus (HCV) Nucleocapsid Genotype 1	1 mg	\$420.00
Z00133	Hepatitis C Virus (HCV) Nucleocapsid Genotype 6a	1 mg	\$420.00
Z00134	Hepatitis C Virus (HCV) Nucleocapsid Genotype 5	1 mg	\$420.00
Z00135	Hepatitis C Virus (HCV) Nucleocapsid Genotype 4	1 mg	\$420.00
Z02018	Combined Hepatitis C Virus (HCV)	1 mg	\$630.00
Z00032	Hepatitis D Virus (HDV)	1 mg	\$420.00
Z00033	Hepatitis E Virus (HEV) ORF2	1 mg	\$420.00
Z02015	Hepatitis E Virus (HEV) ORF2/ORF3	1 mg	\$420.00
Z00058	Herpes Simplex Virus (HSV)-1 gD	1 mg	\$420.00
Z00059	Herpes Simplex Virus (HSV)-1 gG	1 mg	\$420.00
Z00060	Herpes Simplex Virus (HSV)-2 gD	1 mg	\$420.00

Cytokine
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Cat. No.	Product Name	Size	Price
Z00061	Herpes Simplex Virus (HSV)-2 gG	1 mg	\$420.00
Z00150	Human Immunodeficiency Virus (HIV)-1 p24 Core	1 mg	\$420.00
Z02010	Human Immunodeficiency Virus (HIV)-1 Envelope	1 mg	\$420.00
Z02011	Human Immunodeficiency Virus (HIV)-2 gp36 Envelope	1 mg	\$420.00
Z02012	Human Immunodeficiency Virus (HIV)-2 gp36 Envelope (synthetic)	1 mg	\$105.00
Z02013	Human Immunodeficiency Virus (HIV) Type O Envelope (synthetic)	1 mg	\$105.00
Z02014	Human Immunodeficiency Virus (HIV)-1, 2 Envelope	1 mg	\$630.00
Z00145	Human T-Lymphocyte Virus (HTLV)-1 p24 Core	1 mg	\$420.00
Z00147	Human T-Lymphocyte Virus (HTLV)-1 Envelope	1 mg	\$420.00
Z00167	Rubella Virus Capsid C	1 mg	\$630.00
Z00176	Rubella Virus E1 Mosaic	1 mg	\$630.00
Z00177	Rubella Virus E2	1 mg	\$630.00
Z00030	SARS-Associated Coronavirus Spike Mosaic S (C)	1 mg	\$630.00
Z00037	SARS-Associated Coronavirus Nucleocapsid (1-49)	1 mg	\$630.00
Z00039	SARS-Associated Coronavirus Nucleocapsid (340-390)	1 mg	\$630.00
Z00041	SARS-Associated Coronavirus Spike Mosaic S (M)	1 mg	\$630.00
Z02016	SARS-Associated Coronavirus M	1 mg	\$630.00
Z02017	SARS-Associated Coronavirus E	1 mg	\$630.00
Z02024	SARS-Associated Coronavirus Nucleocapsid (1-49/192-220)	1 mg	\$630.00
Z02025	SARS-Associated Coronavirus Spike mosaic S (N)	1 mg	\$630.00
Z00012	Varicella Zoster Virus (VZV) gE	1 mg	\$420.00
Z00013	Varicella Zoster Virus (VZV) ORF9	1 mg	\$420.00
Z00014	Varicella Zoster Virus (VZV) ORF26	1 mg	\$420.00

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Other Proteins:

Cat. No.	Product Name	Size	Price
Z00233	Urinary Trypsin Inhibitor (Ulinastatin) (native), human	10 mg	\$165.00
Z02007	Protein G	5 mg	\$125.00
Z02039	Glutathione S-Transferase (GST), <i>Schistosoma japonicum</i>	1 mg	\$70.00
Z02041	Ribonuclease Inhibitor	2000 U	\$43.00
Z02043	Streptavidin	5 mg	\$150.00

Hot Proteins:

Cat. No.	Product Name	Size	Price
Z01003	Enterokinase, Light Chain, Porcine	100 IU	\$80.00
Z02199	Porcine Enterokinase, Lyophilized	100 IU	\$80.00
Z02001	Macrophage Colony Stimulating Factor (M-CSF), human	1 mg 100 µg	\$3,000.00 \$340.00
Z00384	Leukemia Inhibitory Factor (LIF), human	1 mg 50 µg 10 µg	\$3,120.00 \$400.00 \$140.00
Z02003	Proteinase K	1 mg	\$77.96
Z00327	Bone Morphogenetic Protein (BMP)-2, human	1 mg 50 µg 10 µg	\$1,185.00 \$237.00 \$95.00
Z01001	Tumor Necrosis Factor (TNF)-α, human	1 mg 50 µg 10 µg	\$1,050.00 \$129.00 \$52.00
Z00339	Fibroblast Growth Factor (FGF)-basic, human	10 µg	\$70.00
Z02039	Glutathione S-Transferase (GST), <i>Schistosoma japonicum</i>	1 mg	\$70.00
Z00335	Erythropoietin (EPO)-α, human	10 µg	\$91.00
Z02042	T4 Gene 32 Protein	100 µg	\$39.00

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Enzyme
Virus Antigen
Other Proteins
Hot Proteins
Protein Markers
Protein
Gene
Peptide
Antibody



» Description:

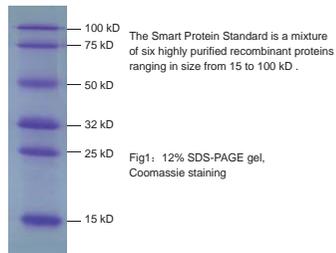
Protein molecular weight markers are used to estimate sample molecular weights, to monitor the progress of an electrophoretic run, and as a positive control for the electrophoresis and Western conditions. GenScript offers a wide selection of molecular weight markers for protein electrophoresis and Western blot applications, including unstained, prestained, peptide, Western-viewable, and other markers. All have been quality-controlled to assure consistent performance and are available in convenient package sizes.

» Key Features:

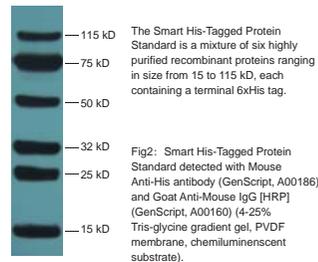
- **Comprehensive selection** — GenScript offers a variety of protein markers for different applications, including SDS-PAGE, Western Blot, etc.
- **Direct visualization** — GenScript's EasyWestern Protein Marker allows direct visualization of the MW standard on Western Blots (membrane, X-ray film, chemiluminescent imager).
- **Broad molecular weight range** — GenScript provides low-molecular weight, mid-range and high molecular weight markers to suit all practical needs.

» Examples:

1. Smart Protein Standard (Mid-Range)



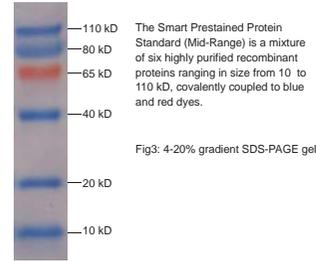
2. Smart His-Tagged Protein Standard



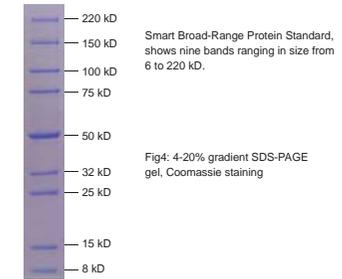
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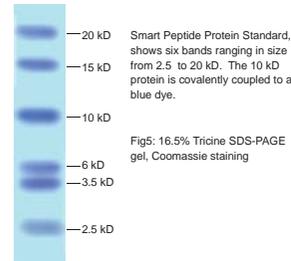
3. Smart Prestained Protein Standard (Mid-Range)



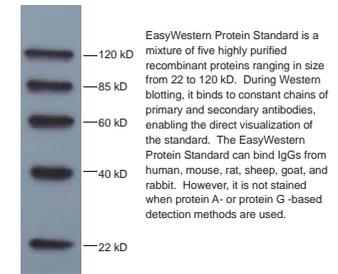
4. Smart Broad-Range Protein Standard



5. Smart Peptide Protein Standard



6. EasyWestern Protein Standard



» Product Overview:

Cat. No.	Product Name	Size	Price
MM0900	Smart Protein Standard (Middle-Range)	100 Lanes	\$49.00
MM0904	Smart His-tagged Protein Standard	100 Lanes	\$98.00
MM0905	Smart Prestained Protein Standard (Middle-Range)	100 Lanes	\$95.00
MM0906	Smart Broad-Range Protein Standard	100 Lanes	\$58.00
MM0907	Smart Peptide Protein Standard	50 Lanes	\$58.00
MM0908	EasyWestern Protein Standard	100 Lanes	\$68.00
MO0124	Protein Marker for Fluorescent Western Blotting	100 Lanes	\$68.00

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GenScript Corporation
www.genscript.com

Easy Self-Induction Medium

» Description:

GenScript's Easy Self-Induction Medium facilitates high-yield expression of recombinant proteins in T7-regulated *E. coli* expression systems without IPTG induction. Using this medium, the researcher has no need to monitor cell optical density (OD) or to optimize IPTG induction conditions. Furthermore, the protein yield is typically three times as high or higher than that obtained by traditional LB-IPTG methods. The Easy Self-Induction Medium is a complete product requiring no other supplements beside antibiotics; it is supplied as a pre-sterilized, ready-to-use liquid.

» Key Features:

- High Yield
- Reduced culture time
- Auto-induction of the protein expression
- No need to monitor cell growth density
- No inducer needed
- No supplements needed
- Ready to Use

» Example:

Shown in Figure 1 is a comparison of protein expression in the Easy Self-Induction Medium to that in a LB + IPTG system.

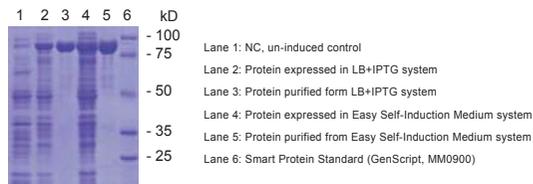


Figure 1. Protein expression in Easy Self-Induction Medium compared to that from LB+IPTG system

» Product Overview:

Cat. No.	Product Name	Size	Price
M00104	Easy Self-Induction Medium	500 ml	\$29.00

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Protein Extraction Reagents

» Description:

Protein extraction reagent is an excellent tool for the initial purification and preparation of proteins from any tissues and cells. GenScript provides two protein extraction reagents, Easy BacLysis Protein Extraction Solution and TrioMol Isolation Reagent, both can isolate proteins from cell lysates. TrioMol Isolation Reagent can also isolate total RNA, DNA, and protein from sample mixtures in one single-step liquid-phase separation.

» Key Features:

- Easy to Use single-solution format
- Rapid cell lysis of recombinant *E. coli*
- Flexible format compatible with small- and large-scale protein extraction
- Compatible with soluble and insoluble protein extraction
- Purifies inclusion bodies to near-homogenous levels
- One single-step liquid-phase separation of RNA, DNA, and protein (TrioMol Isolation Reagent)

» Example:

Protein extraction using competitor A protein extraction reagent and GenScript's Easy BacLysis Protein Extraction Solution. 1.5 ml cultures of *E. coli* strain BL21 (DE3) containing pET-28a encoding target protein were harvested by centrifugation and resuspended in 300 μ l competitor A protein extraction reagent, or Easy BacLysis Protein Extraction Solution. Samples in lysis reagent were treated according to their respective protocols. Extracts were clarified by centrifugation, then supernatants were removed and insoluble fractions were resuspended in 300 μ l distilled water. The supernatant and insoluble fractions were analyzed by SDS-PAGE and Coomassie blue staining.

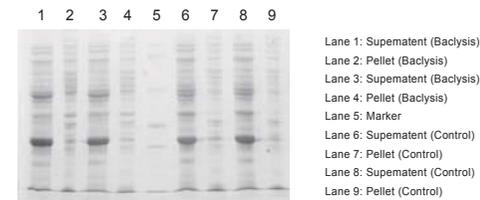


Figure 1. SDS-PAGE analysis and Coomassie bluestaining of extracted soluble proteins from *E. coli* in induction

» Product Overview:

Cat. No.	Product Name	Size	Price
L00230	Easy BacLysis Protein Extraction Solution	500 ml	\$148.00
L00240	Easy BacLysis Protein Extraction Solution Plus Hercules Endonuclease	1 Kit	\$228.00
M00105	TrioMol Isolation Reagent	100 ml	\$89.00

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Protein Purification Resins

Description:

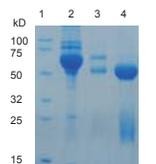
GenScript provides a series of protein purification resins and MagBeads that allow efficient and reliable purification of target proteins and antibodies from biological samples including cell lysates and culture supernatants. These resins and beads are covalently cross-linked to or coated with proteins A, G, or L, antibodies, Ni²⁺, iminobiotin or glutathione. Resin- or MagBead-based purification methods significantly lower the possibility of cross-contamination and loss of proteins that are common if centrifugation or gravity precipitation methods are used. Purification using resins and beads is also less labor-intensive and time-consuming.

Key Features:

- Quick and Convenient Separation
- Minimal Cross-Contamination
- Minimal Loss of Target Protein
- High Binding Capacity

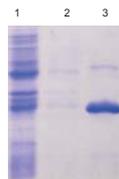
Examples:

1. SDS-PAGE analysis of a protein purified using Protein A Resin from GenScript (L00210)



1-Smart Prestained Protein Standard (Mid-Range)
 2-Flow, 3-Wash, 4-Elute

2. SDS-PAGE analysis of a protein purified using High-Affinity GST resin from GenScript (L00206)



1-Flow, 2-Wash, 3-Elute

Product Overview:

Cat. No.	Product Name	Size	Price
L00206	GST Resin	1 Kit	\$98.00
L00207	GST Fusion Protein Purification Kit	1 Kit	\$139.00
L00208	Protein Expression and Purification Kit	1 Kit	\$335.00
L00210	Protein A Resin	5 ml	\$98.00
L00209	Protein G Resin	5 ml	\$129.00
L00239	Protein L Resin	2.5 ml	\$145.00
L00223	High Affinity Ni-Charged Resin	500 ml 25 ml 10 ml	\$2480.00 \$168.00 \$80.00
L00272	IminoBiotin Resin	5 ml	\$118.00
L00275	THE™ Anti-His mAb MagBeads	5 mg	\$197.00
L00295	Ni-Charged Magnetic Beads	2 ml	\$98.00
L00273	Protein A MagBeads	1 ml	\$89.00
L00274	Protein G MagBeads	0.5 ml	\$125.00
L00277	Protein A/G MagBeads	0.5 ml	\$148.00
L00328	Goat Anti-Rabbit IgG MagBeads	1 ml	\$159.00
L00332	Donkey Anti-Goat IgG MagBeads	1 ml	\$159.00
L00336	Mouse Anti-GST mAb MagBeads	1 ml	\$159.00
L00337	Mouse Anti-Trx mAb MagBeads	1 ml	\$159.00

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Express™ PAGE Gels

Description:

GenScript's Express™ PAGE Gels are precast polyacrylamide gels, ideal for protein gel electrophoresis. These gels boast long shelf lives, high resolution, fast electrophoresis, and high transfer efficiency.

Key Features:

- **Easy to Use:** Simple setup with no combs or tapes to be removed.
- **Long Shelf Life:** If stored properly, the gels last for two years.
- **High Resolution:** GenScript's unique running buffer produces excellent separation and high-resolution bands.
- **Fast Electrophoresis:** Run time is between 30 and 45 minutes.
- **High Transfer Efficiency:** With semi-dry transfer technique, it allows complete protein transfer in 30 minutes.

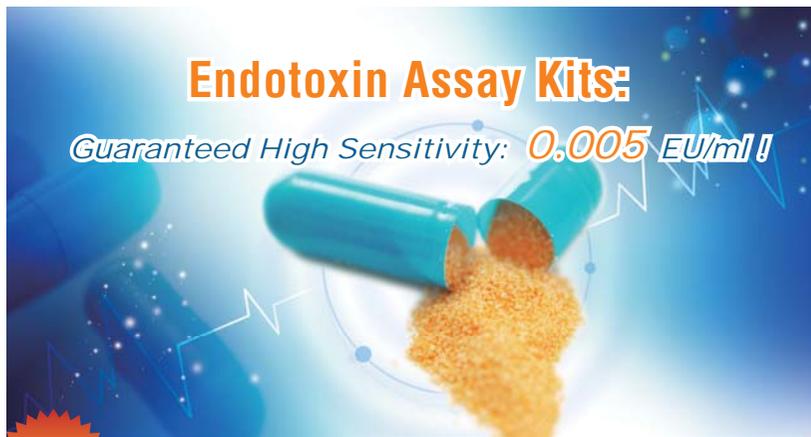
Applications:

- Disruption of bacterial cells for the removal of active proteins
- Inclusion body purification

Product Overview:

Cat. No.	%Acryl- amide	Wells	Well Vol.	Separation Range	Size	Price
MG008W10	8%	10	50 µl	205 - 45 kDa	1 Box of 10	\$102.50
MG010W10	10%	10	50 µl	205 - 24 kDa	1 Box of 10	\$102.50
MG012W10	12%	10	50 µl	205 - 14 kDa	1 Box of 10	\$102.50
MG420W10	4-20%	10	50 µl	205 - 6.5 kDa	1 Box of 10	\$102.50
MG816W10	8-16%	10	50 µl	205 - 14 kDa	1 Box of 10	\$102.50
MG008W12	8%	12	30 µl	205 - 45 kDa	1 Box of 10	\$102.50
MG010W12	10%	12	30 µl	205 - 24 kDa	1 Box of 10	\$102.50
MG012W12	12%	12	30 µl	205 - 14 kDa	1 Box of 10	\$102.50
MG420W12	4-20%	12	30 µl	205 - 6.5 kDa	1 Box of 10	\$102.50
MG816W12	8-16%	12	30 µl	205 - 14 kDa	1 Box of 10	\$102.50
MG008W15	8%	15	25 µl	205 - 45 kDa	1 Box of 10	\$102.50
MG010W15	10%	15	25 µl	205 - 24 kDa	1 Box of 10	\$102.50
MG012W15	12%	15	25 µl	205 - 14 kDa	1 Box of 10	\$102.50
MG420W15	4-20%	15	25 µl	205 - 6.5 kDa	1 Box of 10	\$102.50
MG816W15	8-16%	15	25 µl	205 - 14 kDa	1 Box of 10	\$102.50

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NEW! Sure, Speedy, and Sensitive Detection of Bacterial Endotoxins, for As Little As \$90/Kit!

» Description:

GenScript ToxinSensor™ Endotoxin Assay Kits perform at high sensitivity levels in a wide range of in vitro end-product endotoxin tests, including those for medical devices, biological products, and both human and animal parenteral drugs. They are available at some of the most competitive prices in the industry.

» Key Features:

- Kits are delivered ready-to-use with all the reagents and materials required, including tips, endotoxin-free tubes, and more
- Strong linearity and reproducibility
- High sensitivity over a broad range of applications

» Related Products:

GenScript also provides a ToxinEraser™ Kit (GenScript, L00338) that employs polymyxin B (PMB) affinity matrices for the rapid removal of endotoxins from samples.

» Product Overview:

Cat. No.	Product Name	Size	Price
L00350	ToxinSensor™ Chromogenic LAL Endotoxin Assay Kit	1 Kit	\$105.00
L00351	ToxinSensor™ Gel Clot Endotoxin Assay Kit	1 Kit	\$90.00
L00338	ToxinEraser™ Endotoxin Removal Kit	1.5 ml	\$110.00

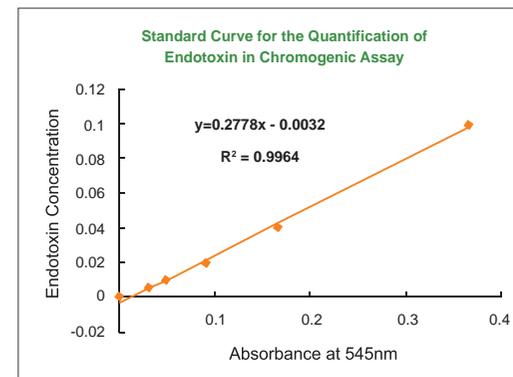
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ToxinSensor™ Chromogenic LAL Endotoxin Assay Kit

» Description:

The ToxinSensor™ Chromogenic LAL Endotoxin Assay Kit (Cat. No. L00350) employs a modified limulus amoebocyte lysate and a synthetic color-producing substrate to quantitatively and chromogenically detect endotoxins in a broad range of 0.005 - 1 EU/ml. Under standard conditions, the absorbance at 545 nm is linear in endotoxin concentration ranges of 0.005 to 0.1 and 0.1 to 1 EU/ml.



ToxinSensor™ Gel Clot Endotoxin Assay Kit

» Description:

The ToxinSensor™ Gel Clot Endotoxin Assay Kit (Cat. No. L00351) is a qualitative test for gram-negative bacterial endotoxins. Limulus amoebocyte lysate is reconstituted with LAL reagent water and then mixed in equal parts with the solution being tested. After incubation, provided endotoxin is present, gelation occurs; in the absence of endotoxin, gelation does not occur. The results of a typical assay are shown below:

Positive control	Negative control	1:200,000	1:400,000	1:800,000
+	-	+	-	-

* Sample: Protein A, 1 mg/ml in PBS, pH 7.4. It is purified from *E. coli* sonicate by Ni-NTA resin.

* Dilution by LAL water: 1: 200,000, 1: 400,000, 1: 800,000

Reduce endotoxin levels to **0.1 EU/ml** or less with the ToxinEraser™ Removal Kit!

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