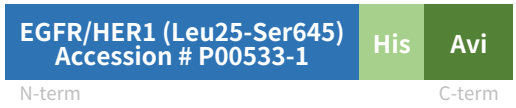
Rev05
Update: Aug,11,2025

DATASHEET

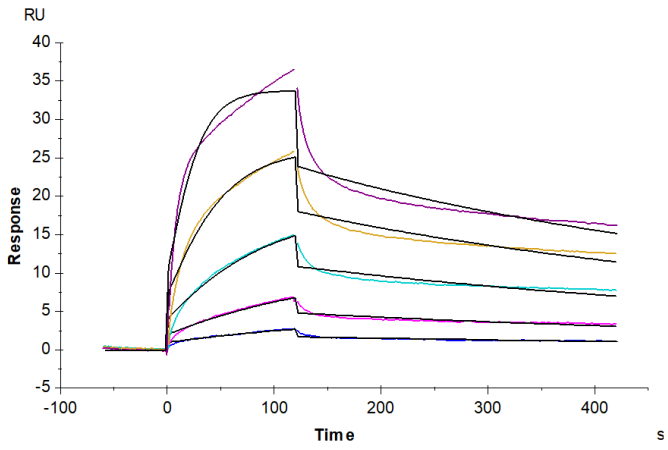
EGFR/HER1[Biotin], His & Avi, Human

Cat. No.: Z03920

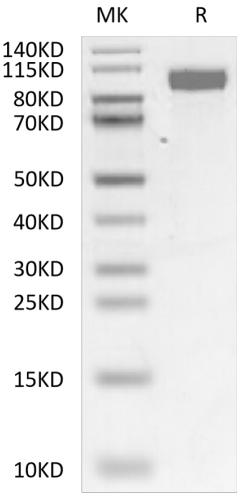
Product Introduction

Species	Human
Protein Construction	
Conjugate	Biotin
Purity	> 95% as determined by Bis-Tris PAGE
Endotoxin Level	Less than 1EU per μg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	71.5 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 90-120 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from a 0.22 μm filtered solution in PBS, pH 7.4 .
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH_2O more than 100 μg/ml.
Storage & Stability	Upon receiving, the product remains stable for 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

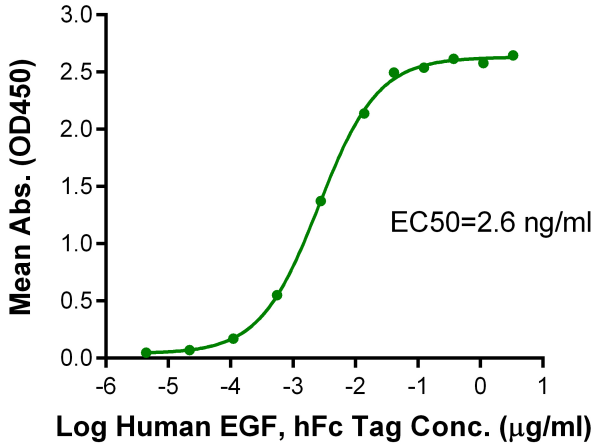
Examples



EGFR/HER1[Biotin], His & Avi, Human captured on CM5 Chip via Anti-his antibody can bind Human EGF, No Tag with an affinity constant of 0.62 nM as determined in SPR assay (Biacore T200).



EGFR/HER1[Biotin], His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Immobilized EGFR/HER1[Biotin], His & Avi, Human at 1 μg/ml (100 μl/Well) on streptavidin(5 μg/ml) precoated plate. Dose response curve for Human EGF, hFc Tag with the EC50 of 2.6 ng/ml determined by ELISA.

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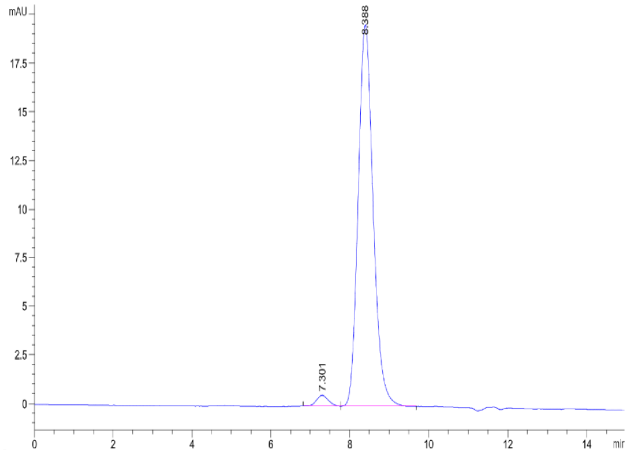
860 Centennial Ave. Piscataway, NJ 08854
Tel: 1-732-885-9188



The purity of EGFR/HER1[Biotin], His & Avi, Human is greater than 95% as determined by SEC-HPLC.

Background

Target Background : The epidermal growth factor receptor is a transmembrane protein that is a receptor for members of the epidermal growth factor family of extracellular protein ligands. The epidermal growth factor receptor is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR, HER2/neu, Her 3 and Her 4. Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses.

Synonyms : ErbB; EC 2.7.10; EC 2.7.10.1; EGFR; mENA; LEGFR; ERBB; ERBB1; HER1; PIG61; NISBD2

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China