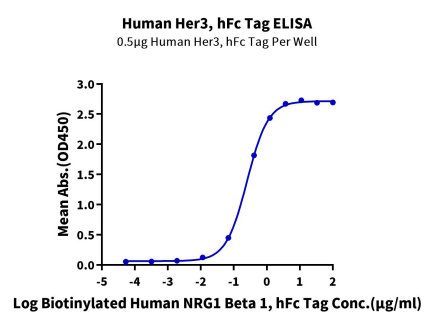
Bioactive CellTx™ HuPro®

ERBB3 (Human) Recombinant Protein

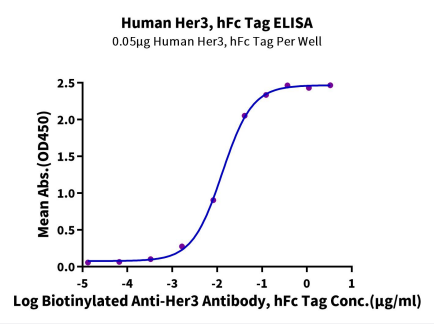
Catalog # P10189 Size 100 ug

Applications



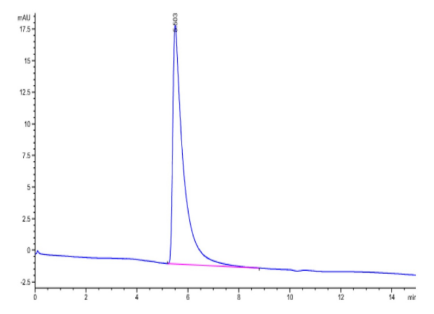
Enzyme-linked Immunoabsorbent Assay

Immobilized Human Her3, hFc Tag at 5 ug/ml (100 ul/Well) on the plate. Dose response curve for Biotinylated Human NRG1 Beta 1, hFc Tag with the EC_{50} of 0.25 ug/ml determined by ELISA.



ELISA

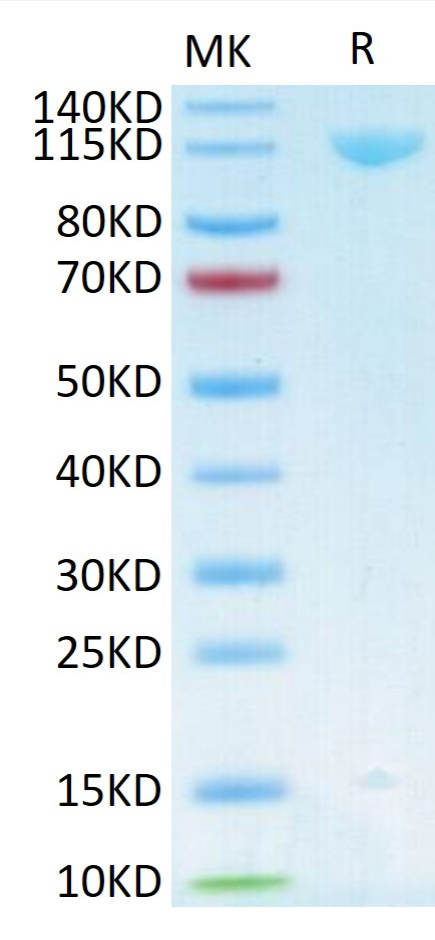
Immobilized Human Her3, hFc Tag at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Biotinylated Anti-Her3 Antibody, hFc Tag with the EC_{50} of 12.8 ng/ml determined by ELISA (QC Test).



SEC-HPLC

The purity of-Human Her3 is greater than 95% as determined by SEC-HPLC.

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Tris-Bis PAGE

Human Her3 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

Specification

Product Description	Human ERBB3 (P21860, Ser20-Thr643) partial recombinant protein with hFc tag at C-terminus expressed in HEK293 cells.
Sequence	Ser20-Thr643
Host	Human
Theoretical MW (kDa)	95.40000000000001
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE;> 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)

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Quality Control Testing	ELISA and SEC-HPLC ELISA Immobilized Human Her3, hFc Tag at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Biotinylated Anti-Her3 Antibody, hFc Tag with the EC_{50} of 12.8 ng/ml determined by ELISA (QC Test). SEC-HPLC The purity of-Human Her3 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human Her3 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SEC-HPLC Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from filtered solution in PBS, pH 7.4 (8% trehalose).
Storage Instruction	After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human Her3, hFc Tag at 5 ug/ml (100 ul/Well) on the plate. Dose response curve for Biotinylated Human NRG1 Beta 1, hFc Tag with the EC_{50} of 0.25 ug/ml determined by ELISA.

Gene Info — ERBB3

Entrez GeneID	2065
Protein Accession#	P21860
Gene Name	ERBB3
Gene Alias	ErbB-3, HER3, LCCS2, MDA-BF-1, MGC88033, c-erbB-3, c-erbB3, erbB3-S, p180-ErbB3, p45-sErbB3, p85-sErbB3
Gene Description	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
Omim ID	190151 607598
Gene Ontology	Hyperlink

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Gene Summary	This gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. It therefore can bind this ligand but not convey the signal into the cell through protein phosphorylation. However, it does form heterodimers with other EGF receptor family members which do have kinase activity. Heterodimerization leads to the activation of pathways which lead to cell proliferation or differentiation. Amplification of this gene and/or overexpression of its protein have been reported in numerous cancers, including prostate, bladder, and breast tumors. Alternate transcriptional splice variants encoding different isoforms have been characterized. One isoform lacks the intermembrane region and is secreted outside the cell. This form acts to modulate the activity of the membrane-bound form. Additional splice variants have also been reported, but they have not been thoroughly characterized. [provided by RefSeq
Other Designations	erbB-3|lethal congenital contracture syndrome 2|v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 3

Pathway

- Calcium signaling pathway
- Endocytosis
- ErbB signaling pathway

Disease

- Addison Disease
- Arthritis
- Autoimmune Diseases
- Bipolar Disorder
- Brain Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Coronary Artery Disease
- Crohn Disease
- Diabetes Mellitus

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- Edema
- Genetic Predisposition to Disease
- Glioma
- Hypertension
- Multiple Sclerosis
- Ovarian Neoplasms
- Prostatic Neoplasms
- Schizophrenia
- Thyroid Diseases

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