

## HER3 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P70322
Synonyms:	rHuReceptor tyrosine-protein kinase erbB-3/HER3, Fc; Proto-oncogene-like protein c-ErbB-3; Tyrosine kinase-type cell surface receptor HER3; ERBB3; HER3
Species:	Human
Source:	HEK293
Accession:	P21860 (S20-T643)
Gene ID:	2065
Molecular Weight:	120-140 kDa

### PROPERTIES

AA Sequence	<p>           SEVGNSQAVC PGT L NGLSVT GDAENQYQTL YKLYERCEVV            MGNLEIVLTG HNADLSFLQW IREVTGYVLV AMNEFSTLPL            PNLRVVRGTQ VYDGKFAIFV MLNYNTNSSH ALRQLRLTQL            TEILSGGVYI EKNDKLCHMD TIDWRDIVRD RDAEIVVKDN            GRSCPPCHEV CKGRCWGPGS EDCQTLTKTI CAPQCNGHCF            GPNPNQCCHD ECAGGCSGPQ DTDCFACRHF NDSGACVPRC            PQPLVYNKLT FQLEPNPHTK YQYGGVVCVAS CPHNFVVDQT            SCVRACPPDK MEVDKNGCLKM CEP CGGLCPK ACEGTGSGSR            FQTV DSSNID GFVNCTKILG NLD FLITGLN GDPWHKIPAL            DPEKLN VFRT VREITGYLNI QSWPPHMHNF SVFSNLTTIG            GRS LYNRGFS LLIMKNLNV TSLGFRSLKEI SAGRIYISAN            RQLCYHHS LN WTKVLRGPTE ERLDIKHNRP RRDCVAEGKV            CDPLC SSGGC WGP GPGQCLS CRNYSRGGVC VTHCNFLNGE            PREF AHEAEC F SCHPECQPM EGTATCNGSG SDTCAQCAHF            RDGPHCVSSC PHGVLGAKGP IYKYPDVQNE CRPCHENCTQ            GCKGPELQDC LGQTLVLIGK THLT         </p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

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## DESCRIPTION

### Background

HER3, a tyrosine-protein kinase, serves as a critical cell surface receptor for neuregulins. Activated by neuregulin-1 (NRG1), ligand binding enhances phosphorylation on tyrosine residues and facilitates its interaction with the p85 subunit of phosphatidylinositol 3-kinase. Additionally, there is evidence suggesting activation by CSPG5. HER3 is intricately involved in the regulation of myeloid cell differentiation, highlighting its pivotal role in cellular processes crucial for normal development and function.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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