

HER3 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P72375
Synonyms:	Proto-oncogene-like protein c-ErbB-3; Tyrosine kinase-type cell surface receptor HER3; ERBB3
Species:	Human
Source:	HEK293
Accession:	P21860 (S20-T643)
Gene ID:	2065
Molecular Weight:	90-120 kDa

PROPERTIES

AA Sequence

SEVGNSQAVC	PGTLNGLSVT	GDAENQYQTL	YKLYERCEVV
MGNLEIVLTG	HNADLSFLQW	IREVTGYVLV	AMNEFSTLPL
PNLRVVRGTQ	VYDGKFAIFV	MLNYNTNSSH	ALRQLRLTQL
TEILSGGVYI	EKNDKLCHMD	TIDWRDIVRD	RDAEIVVKDN
GRSCPPCHEV	CKGRCWGP GS	EDCQTLTKTI	CAPQCNGHCF
GP NPNQCCHD	ECAGGCSGPQ	DTDCFACRHF	NDSGACVPRC
PQPLVYNKLT	FQLEPNPHTK	YQYGGVVCVAS	CPHNFVVDQT
SCVRACPPDK	MEVDKNG LKM	CEPCGGLCPK	ACEGTGSGSR
FQTV DSSNID	GFVNCTKILG	NLD FLITGLN	GDPWHKIPAL
DPEKLN VFRT	VREITGYLNI	QSWPPHMHNF	SVFSNLTTIG
GRSLYNRGFS	LLIMKNL NVT	SLGFRSLKEI	SAGRIYISAN
RQLCYHHS LN	WTKVLRGPTE	ERLDIKHNRP	RRDCVAEGKV
CDPLC SSGGC	WGP GPGQCLS	CRNYSRGGVC	VTHCNFLNGE
PREFAHEAEC	F SCHPECQPM	EGTATCNGSG	SDTCAQCAHF
RDGPHCVSSC	PHGVLGAKGP	IYKYPDVQNE	CRPCHENCTQ
GCKGPELQDC	LGQTLVLIGK	THLT	

Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

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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