

## HER3 Protein, Human (HEK293, His, solution)

Cat. No.:	HY-P72625A
Synonyms:	Receptor tyrosine-protein kinase erbB-3; ERBB3; HER3
Species:	Human
Source:	HEK293
Accession:	P21860 (S20-T643)
Gene ID:	2065
Molecular Weight:	85-100 kDa

### PROPERTIES

#### AA Sequence

SEVGN SQAVC	PGTLNGLSVT	GDAENQYQTL	YKLYERCEVV
MGNLEIVLTG	HNADLSFLQW	IREVTGYVLV	AMNEFSTLPL
PNLRVVRGTQ	VYDGKFAIFV	MLNYNTNSSH	ALRQLRLTQL
TEILSGGVYI	EKNDKLCHMD	TIDWRDIVRD	RDAEIVVKDN
GRSCPPCHEV	CKGRCWGPGS	EDCQTLTKTI	CAPQCNGHCF
GPNNPQCCHD	ECAGGCSGPQ	DTDCFACRHF	NDSGACVPRC
PQPLVYNKLT	FQLEPNPHTK	YQYGGVCVAS	CPHNFVVDQT
SCVRACPPDK	MEVDKNGLKM	CEPCGGLCPK	ACEGTGSGSR
FQTVDSSNID	GFVNCTKILG	NLDFLITGLN	GDPWHKIPAL
DPEKLNVFRT	VREITGYLNI	QSWPPHMHNF	SVFSNLTTIG
GRSLYNRGFS	LLIMKNLNVT	SLGFRSLKEI	SAGRIYISAN
RQLCYHHS LN	WTKVLRGPTE	ERLDIKHNRP	RRDCVAEGKV
CDPLC SSGGC	WGP GPGQCLS	CRNYSRGGVC	VTHCNFLNGE
PREFAHEAEC	F SCHPECQPM	EGTATCNGSG	SDTCAQCAHF
RDGPHCVSSC	PHGVLGAKGP	IYKYPDVQNE	CRPCHENCTQ
GCKGPELQDC	LGQTLVLI GK	THLT	

**Appearance** Solution.

**Formulation** Supplied as a 0.2 µm filtered solution of PBS, 50% Glycerol, 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.

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

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