

## HER3 Protein, Rhesus Macaque (HEK293, Fc)

<b>Cat. No.:</b>	HY-P76968
<b>Synonyms:</b>	Receptor tyrosine-protein kinase erbB-3; ERBB3; HER3
<b>Species:</b>	Rhesus Macaque
<b>Source:</b>	HEK293
<b>Accession:</b>	XP_001113953 (S20-T643)
<b>Gene ID:</b>	711407
<b>Molecular Weight:</b>	130-140 kDa

### PROPERTIES

#### AA Sequence

SEVGN SQAVC	PGTLNGLSVT	GDAENQYQTL	YKLYERCEVV
MGNLEIVLTG	HNADLSFLQW	IREVTGYVLV	AMNEFSTLPL
PNLRVVRGTQ	VYDGKFAIFV	MLNYNTNSSH	ALRQLRLTQL
TEILSGGVYI	EKNDKLCHMD	TIDWKDIVRD	QDAEIVVKDN
GRSCPLCHEV	CKGRCWGPGP	EDCQTLTKTI	CAPQCNGHCF
GPNNPQCCHD	ECAGGCSGPQ	DTDCFACRHF	NDSGACVPRC
PQPLVYNKLT	FQLEPNPHTK	YQYGGVCVAS	CPHNFVVDQT
SCVRACPPDK	MEVDKNGLKM	CEPCGGLCPK	ACEGTGSGSR
FQTVDSSNID	GFVNCTKILG	NLDFLITGLN	GDPWHKIPAL
DPEKLNVFRT	VREITGYLNI	QSWPPHMYNF	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	LGQTLVLIIGK	THLT	

**Biological Activity** Measured by its binding ability in a functional ELISA. Immobilized Human NRG1 Alpha His at 2 µg/mL (100 µl/well) can bind Rhesus HER3/ERBB3 hFc, the EC<sub>50</sub> of Rhesus HER3/ERBB3 hFc is 250-800 ng/mL.

**Appearance** Solution.

**Formulation** Supplied as a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.

**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.

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**Shipping**

Shipping with dry ice

**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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