

HER3 Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P74892
Synonyms:	Receptor tyrosine-protein kinase erbB-3; ERBB3; HER3
Species:	Rat
Source:	HEK293
Accession:	G3V6N1 (S20-H641)
Gene ID:	29496
Molecular Weight:	Approximately 115 kDa

PROPERTIES

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. 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	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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 is a tyrosine protein-kinase that is a key cell surface receptor for neuregulin. Under the activation of neuregulin 1 (NRG1), ligand binding enhances the phosphorylation of tyrosine residues and facilitates their interaction with PI3K/p85. HER3 is involved in the regulation of myeloid differentiation and plays a key role in the cellular process of normal development and function. ErbB2 and ErbB3 can form dimers and activate signaling pathways including MAPK, PI3K/Akt and PLCγ to promote tumor development ^{[1][2][3][4]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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