HER3 Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78452
Synonyms:	ErbB3; ErbB-3; HER3; HER3c-erbB-3; LCCS2; MDA-BF-1; MGC88033; p180-ErbB3; p45-sErbB3; p85-sErbB3; ERBB3
Species:	Human
Source:	HEK293
Accession:	P21860 (S20-T643)
Gene ID:	2065
Molecular Weight:	72-75 kDa

PROPERTIES

Biological Activity	1. Immobilized Human Her3, His Tag at 1μg/ml (100μl/Well) on the plate. Dose response curve for Anti-Her3 Antibody, hFc Tag with the EC_{50} of 15.3ng/ml determined by ELISA. 2. Immobilized Human Her3, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human NRG1 Beta 1, hFc Tag with the EC_{50} of 48.6ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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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