

HER3 Protein, Human (312a.a, HEK293, Fc)

Cat. No.:	HY-P70323
Synonyms:	rHuReceptor tyrosine-protein kinase erbB-3/HER3-312AA, Fc; Proto-oncogene-like protein c-ErbB-3; Tyrosine kinase-type cell surface receptor HER3; ERBB3; HER3
Species:	Human
Source:	HEK293
Accession:	P21860-3 (S20-A330)
Gene ID:	2065
Molecular Weight:	Approximately 69 kDa

PROPERTIES

AA Sequence	<pre> S E V G N S Q A V C P G T L N G L S V T G D A E N Q Y Q T L Y K L Y E R C E V V M G N L E I V L T G H N A D L S F L Q W I R E V T G Y V L V A M N E F S T L P L P N L R V V R G T Q V Y D G K F A I F V M L N Y N T N S S H A L R Q L R L T Q L T E I L S G G V Y I E K N D K L C H M D T I D W R D I V R D R D A E I V V K D N G R S C P P C H E V C K G R C W G P G S E D C Q T L T K T I C A P Q C N G H C F G P N P N Q C C H D E C A G G C S G P Q D T D C F A C R H F N D S G A C V P R C P Q P L V Y N K L T F Q L E P N P H T K Y Q Y G G V C V A S C P H N F V V D Q T S C V R A C P P D K M E V D K N G L K M C E P C G G L C P K A F </pre>
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 20 mM PB, 150 mM NaCl, 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 ddH ₂ O. 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
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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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