

HER3 / ErbB3 active protein

Recombinant Human HER3 / ErbB3 Protein (His tag)

CATALOG #
AAA173572

HOST
Human Cells

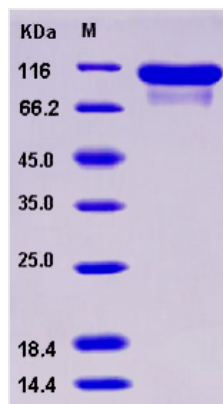
PRODUCT SYNONYMS

HER3 / ErbB3; Recombinant Human HER3 / ErbB3 Protein (His tag); HER3; LCCS2; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; MGC88033; c-erbB-3; p180-ErbB3; p45-sErbB3; p85-sErbB3; HER3 / ErbB3 active protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	> 95 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH 7.4, 5% trehalose, 5% mannitol, 0.01% Tween80.
Sequence Length	1342
Source	Human
Predicted N Terminal	Ser 20
Bio-Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized human ErbB3 at 2 ug/mL (100 ul/well) can bind human NRG1 (isoform Beta1), The EC50 of human NRG1 (isoform Beta1) is 0.43 ug/mL.
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
Reconstitution	It is recommended that sterile water (70 ul) be added to the vial to prepare a stock solution of 0.15 mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted and be used as soon as possible. Avoid repeated freeze-thaw cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for HER3 / ErbB3 active protein	Background: ErbB3, also known as Her3 (human epidermal growth factor receptor3), is a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound glycoprotein has a neuregulin binding domain but has not an active kinase domain., and therefore can not mediate the intracellular signal transduction through protein phosphorylation. However, its heterodimer with ErbB2 or other EGFR members responsible for tyrosine phosphorylation forms a receptor complex with high affinity, and initiates the related pathway which lead to cell proliferation or differentiation. ErbB3 has been shown to implicated in numerous cancers, including prostate, bladder, and breast tumors. This protein has different isoforms derived from alternative splicing variants, and among which, the secreted isoform lacking the intermembrane region modulates the activity of membrane-bound form. Description: A DNA sequence encoding the extracellular domain (Met 1-Thr 643) of human ErbB3 (NP_001973.2) precursor was expressed, with a C-terminal polyhistidine tag.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	54792100
NCBI GeneID	2065
NCBI Accession #	NP_001973.2
NCBI GenBank Nucleotide #	NM_001982.3
UniProt Accession #	P21860; Q9BUD7; A8K6L6; B4DIK7; B4DV32; E9PDT8
Molecular Weight	77,426 Da
NCBI Official Full Name	receptor tyrosine-protein kinase erbB-3 isoform 1
NCBI Official Synonym Full Names	erb-b2 receptor tyrosine kinase 3
NCBI Official Symbol	ERBB3
NCBI Official Synonym Symbols	HER3; LCCS2; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; c-erbB-3; p180-ErbB3; p45-sErbB3; p85-sErbB3
NCBI Protein Information	receptor tyrosine-protein kinase erbB-3
UniProt Protein Name	Receptor tyrosine-protein kinase erbB-3
UniProt Gene Name	ERBB3
UniProt Synonym Gene Names	HER3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.