

Recombinant Rat HER3/ErbB3 Protein (His Tag)(Active)

Catalog Number:PKSR030358



Note: Centrifuge before opening to ensure complete recovery of vial contents.

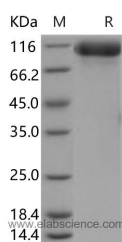
Description

Synonyms	ERBB3
Species	Rat
Expression Host	HEK293 Cells
Sequence	Met1-His641
Accession	Q3MHC0
Calculated Molecular Weight	69.9 kDa
Observed molecular weight	112 kDa
Tag	C-His
Bioactivity	Measured by its binding ability in a functional ELISA. Immobilized rat ERBB3-His at 10 µg/ml (100 µl/well) can bind biotinylated human NRG1 , The EC50 of biotinylated human NRG1 is 1.1-2.6 µg/ml.

Properties

Purity	> 95 % as determined by SDS-PAGE
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Storage	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4
Reconstitution	Please refer to the printed manual for detailed information.

Data



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.

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