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Recombinant Human ErbB-3/HER3 Protein

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Catalog No.: RP00083

Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 2065 P21860

Tags

C-His

Synonyms

ErbB-3; HER3; LCCS2; MDA-BF-1; c-erbB-3; c-erbB3; erbB3-S; p180-ErbB3; p45-sErbB3; p85-sErbB3;ERBB3;HER3;LCCS2;MDA-BF-1;c-erbB-3;c-erbB3;erbB3-S;p180-ErbB3;p45-sErbB3;p85-sErbB3; FERLK; VSCN1; ErbB-3

Product Information

Source

Purification

HEK293 cells

> 97% by SDS-PAGE.

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$ of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact



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Background

This protein is a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. It therefore can bind this ligand but not convey the signal into the cell through protein phosphorylation. However, it does form heterodimers with other EGF receptor family members which do have kinase activity. Heterodimerization leads to the activation of pathways which lead to cell proliferation or differentiation. Amplification of this gene and/or overexpression of its protein have been reported in numerous cancers, including prostate, bladder, and breast tumors. Alternate transcriptional splice variants encoding different isoforms have been characterized. One isoform lacks the intermembrane region and is secreted outside the cell. This form acts to modulate the activity of the membrane-bound form. Additional splice variants have also been reported, but they have not been thoroughly characterized.

Basic Information

Description

Recombinant Human ErbB-3/HER3 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ser20-Thr643) of human ErbB3/Her3 (Accession #NP 001973.2) fused with a $6 \times \text{His}$ tag at the C-terminus.

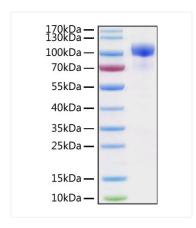
Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human ERBB3 at 2 μ g/mL (100 μ L/well) can bind Recombinant Human NRG1-beta1 with a linear range of 0.128-45.7 ng/mL.

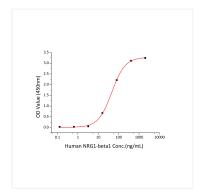
Storage

Store the lyophilized protein at -20°C to -80 °C for long term.
br>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human ErbB-3/HER3 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 100 kDa.



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