

Active Recombinant Human ERBB3 Protein (Ser20-Gly538), C-6xHis tagged

Cat. No. ERBB3-28H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human ERBB3 protein (Ser20-Gly538) with 6xHis tag at C-terminus was expressed in Human embryonic kidney cell, HEK293.

Species

Human

Source

HEK293

ProteinLength

Ser20-Gly538

Description

This gene encodes 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.

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Bio-activity	Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCF-7 human breast cancer cells. The ED50 for this effect is 0.3-3 µg/mL in the presence of 10 ng/mL Recombinant Human NRG1-beta 1/HRG1-beta 1 Extracellular Domain.
Molecular Mass	Predicted Molecular Mass: 56.9 kDa SDS-PAGE: 70-75 kDa, reducing conditions
N-terminal Sequence Analysis	Ser20
Endotoxin	< 1.0 EU/µg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstitute at 500 µg/mL in PBS.
Shipping	The product is shipped at ambient temperature.
GENE INFORMATION	
Gene Name	ERBB3 v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian) [Homo sapiens (human)]

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Official Symbol	ERBB3
Synonyms	ERBB3; v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian); LCCS2, lethal congenital contracture syndrome 2; receptor tyrosine-protein kinase erbB-3; HER3; proto-oncogene-like protein c-ErbB-3; tyrosine kinase-type cell surface receptor HER3; LCCS2; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; c-erbB-3; p180-ErbB3; p45-sErbB3; p85-sErbB3; MGC88033;
Gene ID	2065
mRNA Refseq	NM_001005915
Protein Refseq	NP_001005915
MIM	190151
UniProt ID	P21860
Bioactivity	
SDS-PAGE	

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