

Recombinant Human V-Erb-B2 Erythroblastic Leukemia Viral Oncogene Homolog 3 (avian), His-tagged

Cat. No. ERBB3-1216H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Tyrosine Kinase ERBB3 (extracellular domain) is a single, nonglycosylated, fusion polypeptide chain containing Thyrodoxin Tag and His tag. The protein consists of 190 amino acids (Met1- Cys190).
Species	Human
Source	E.coli
Description	ERBB3 is an enzyme that in humans is encoded by the ERBB3 gene. 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.
Form	Liquid. Each mg of protein contains 1 mg aluminum hydroxide + 10 mM arginine + 10 mM sodium chloride + 20 mM sodium phosphate buffer + 5 mM potassium phosphate.
Molecular Weight	34 kDa
Concentration	1 mg/ml
Purity	> 95.0% as determined by RP-HPLC and SDS-PAGE analyses.
Endotoxin Level	< 0.1 ng/ug of ERBB3.

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Biological Activity	Determined by its ability to postpone tumor emergence time of spontaneous breast cancer in FVB/N transgenic mice and inhibit the development of tumor and growth of in situ transplanted breast cancer in FVB/N transgenic mice.
Amino Acid Sequence	MRANDALQVLGLLFSLARGS EVGNSQAVCP GTLNGLSVTG DAENQYQTLY KLYERCEVVM GNLEIVLTGH NADLSFLQWIREVTGYVLVA MNEFSTLPLP NLRVVRGTQV YDGKFAIFVM LNYNTNSSHA LRQLRLTQLT EILSGGVYIE KNDKLCHMDTIDWRDIVRDR DAEIVVKDNG RSCPPCHEVC
Storage	Store at -20°C to -80°C with a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.
Official Symbol	ERBB3

GENE INFORMATION

Gene Name	ERBB3 v-erb-b2 erythroblast leukemia viral oncogene homolog 3 (avian) [Homo sapiens]
Synonyms	ERBB3; v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian); HER3; LCCS2; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; MGC88033; c-erbB-3; p180-ErbB3; p45-sErbB3; p85-sErbB3; receptor tyrosine-protein kinase erbB-3; OTTHUMP00000243039; OTTHUMP00000243040; OTTHUMP00000243072; OTTHUMP00000243359; OTTHUMP00000243360; proto-oncogene-like protein c-ErbB-3; tyrosine kinase-type cell surface receptor HER3
Gene ID	2065
mRNA Refseq	NM_001982

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Protein Refseq	NP_001973
MIM	190151
UniProt ID	P21860
Chromosome Location	12q13
Pathway	Calcium signaling pathway; Endocytosis; ErbB receptor signaling network; ErbB signaling pathway; ErbB2/ErbB3 signaling events; Heart Development; IL-6 Signaling Pathway; α 6 β 1 and α 6 β 4 Integrin signaling
Function	ATP binding; growth factor binding; nucleotide binding; protein binding; protein heterodimerization activity; protein tyrosine kinase activator activity; NOT protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; transmembrane signaling receptor activity
PDB rendering based on 1m6b.	

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