

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

Cat. No. ERBB3-5193H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HumanTyrosine Kinase ERBB3 (extracellular domain) is a single, non-glycosylated,fusion polypeptide chain containing Thyrodoxin Tag and His tag. The proteinconsists of 190 amino acids (Met1- Cys190). ERBB3 is expressed in E. coli, MW 34kDa.
Species	Human
Source	Human
Description	Receptortyrosine-protein kinase ERBB3 is an enzyme that in humans is encoded by theERBB3 gene. This gene encodes a member of the epidermal growth factorreceptor (EGFR) family of receptor tyrosine kinases. This membrane-boundprotein has a neuregulin binding domain but not an active kinase domain.
Form	Liquid. Each mg ofprotein contains 1 mg aluminum hydroxide + 10 mM arginine + 10 mM sodiumchloride + 20 mM sodium phosphate buffer + 5 mM potassium phosphate.
Purity	> 95.0% asdetermined by RP-HPLC and SDS-PAGE analyses.
Sequence	MRANDALQVLGLLFLSLARGS EVGNSQAVCP GTLNGLSVTG DAENQYQTLY KLYERCEVVM GNLEIVLTGH NADLSFLQWIREVTGYVLVA MNEFSTLPLP NLRVVRGTQV YDGKFAIFVM LNYNTNSSHA LRQLRLTQLT EILSGGVYIE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	KNDKLCHMDTIDWRDIVRDR DAEIVVKDNG RSCPPCHEVC
Molecular Weight	34 kDa
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.
Endotoxin Level	< 0.1 ng/g of ERBB3
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	ERBB3v-erb-b2 erythroblastic 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; proto-oncogene-like protein c-ErbB-3; tyrosine kinase-type cell surface receptor HER3; EC2.7.10.1; EC 2.7.10
Gene ID	2065
mRNA Refseq	NM_001005915

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Protein Refseq	NP_001005915
MIM	190151
UniProt ID	P21860
Chromosome Location	12q13
Pathway	Calcium signalingpathway; Endocytosis; ErbB receptor signaling network; ErbB signalingpathway; ErbB2/ErbB3 signaling events; Heart Development; IL-6 SignalingPathway; a6b1 and a6b4 Integrin signaling
Function	ATP binding; growthfactor binding; nucleotide binding; protein binding; proteinheterodimerization activity; protein tyrosine kinase activator activity; NOTprotein tyrosine kinase activity; receptor activity; receptor signalingprotein tyrosine kinase activity; transmembrane receptor protein tyrosinekinase activity; transmembrane signaling receptor activity

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