

Recombinant Human ERBB3, His-tagged

Cat. No. ERBB3-105H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ERBB3, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	ERBB3, also known as receptor tyrosine-protein kinase erbB-3, is a member of the epidermal growth factor receptor (EGFR/ERBB) family of receptor tyrosine kinases. ErbB3 has been shown to bind the ligands heregulin and NRG-2. Ligand binding causes a change in conformation that allows for dimerization, phosphorylation, and activation of signal transduction. ErbB3 can heterodimerize with any of the other three ErbB family members. The theoretical ErbB3 homodimer would be non-functional because the kinase-impaired protein requires transphosphorylation by its binding partner to be active.
Form	Liquid. In phosphate buffered saline (pH7.4).
Molecular Mass	95.6kDa (863aa) (100-150kDa in SDS-PAGE under reducing conditions.)
AA Sequence	SEVGNSQAVC PGTLNGLSVT GDAENQYQTL YKLYERCEVV MGNLEIVLTG HNADLSFLQW IREVTGYVLV AMNEFSTLPL PNLRVVRGTQ VYDGKFAIFV MLNYNTNSSHALRQLRLTQL TEILSGGVYI EKNDKLCHMD TIDWRDIVRD RDAEIVVKDN GRSCPPCHEV CKGRCWGP GS EDCQTLTKTI CAPQCNGHCF GPNPNQCCHD ECAGGCSGPQDTDCFACRHF NDSGACVPRC PQPLVYNKLT

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FQLEPNPHTK YQYGGVCVAS CPHNFVVDQT SCVRACPPDK MEVDKNGGLKM
 CEPCGGLCPK ACEGTGSGSR FQTVDSNIDGFVNCTKILG NLDLITGLN
 GDPWHKIPAL DPEKLNVFRT VREITGYLNI QSWPPHMHNF SVFSNLTTIG
 GRSLYNRGFS LLIMKNLNVLT SLGFRSLKEI SAGRIYISANRQLCYHHSLN
 WTKVLRGPTE ERLDIKHNRP RRDCVAEGKV CDPLCSSGGC WPGPGGQCLS
 CRNYSRGGVC VTHCNFLNGE PREFAEAEAC FSCHPECQPM
 EGTATCNGSGSDTCAQCAHF RDGPHCVSSC PHGVLGAKGP IYKYPDVQNE
 CRPCHENCTQ GCKGPELQDC LGQTLVLIGK THLTRSPKSC DKHTCTPPCP
 APELLGGPSV FLFPPKPKDTLMISRTPEVT CVVVDVSHED PEVKFNWYVD
 GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA
 PIEKTISKAK GQPREPQVYT LPPSRDELTKNQVSLTCLVK GFYPSDIAVE
 WESNGQPENN YKTTTPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSVMHE
 ALHNHYTQKS LSLSPGKHHH HHH

Endotoxin	< 1.0 eu per 1 microgram of protein (determined by lal)
Purity	>80% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25mg/ml (determined by absorbance at 280nm)

GENE INFORMATION

Gene Name	ERBB3 v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian) [Homo sapiens]
Official Symbol	ERBB3
Synonyms	ERBB3; v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian); LCCS2,

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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](#)

Chromosome Location 12q13

Pathway Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Downregulation of ERBB2:ERBB3 signaling, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; ErbB receptor signaling network, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem;

Function ATP binding; growth factor binding; growth factor binding; nucleotide binding; protein binding; protein heterodimerization activity; protein heterodimerization activity; protein homodimerization 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;

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