Active Recombinant Human ERBB3 Fragment Protein (171 aa)

Cat. No. ERBB3-123E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ERBB3 Fragment Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	171
Description	ErbB3, also called Her3 (human epidermal growth factor receptor 3), is a type I membrane glycoprotein that is a member of the ErbB family of tyrosine kinase receptors. ErbB family members serve as receptors for the epidermal growth factor (EGF) family of growth factors. Among ErbB family members, ErbB3 is unique in that it contains a defective kinase domain. ErbB3 is expressed in keratinocytes, melanocytes, skeletal muscle cells, embryonic myoblasts and Schwann cells. Monomeric ErbB3 serves as a low affinity receptor for the heregulins (HRG). rhErbB3-f is a recombinant genetic engineering product which expressed in E. coli. RhErbB3-f can induce specific antibody production in vivo, hence to inhibit tumor cell growth. The product can be used to treat early, medium and advanced or post-operative breast cancer patients with over-expression of ErbB2. According to its mechanism of action, rhErbB3-f is classified into therapeutic cancer vaccine.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Fully biologically active. Measured by its ability to postpone tumor emerge time of spontaneous breast cancer in FVB/N transgenic mice and inhibit the development of

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	tumor, effectively inhibit the growth of in situ transplanted breast cancer in FVB/N transgenic mice.
Molecular Mass	Approximately 34 kDa, a single non-glycosylated fusion polypeptide chain, containing 171 amino acids (Ser20- Cys190) with N-terminus Thioredoxin Tag and His tag.
AA Sequence	MSDKIIHLTDDSFDTDVLKADGAILVDFWAEWCGPCKMIAPILDEIADEYQGKLTVAK LNIDQNPGTAPKYGIRGIPTLLLFKNGEVAATKVGALSKGQLKEFLDANLAGSGSGH MHHHHHHPDLGTDDDDKAMADIGSEVGNSQAVCPGTLNGLSVTGDAENQYQTLYK LYERCEVVMGNLEIVLTGHNADLSFLQWIREVTGYVLVAMNEFSTLPLPNLRVVRGT QVYDGKFAIFVMLNYNTNSSHALRQLRLTQLTEILSGGVYIEKNDKLCHMDTIDWRDI VRDRDAEIVVKDNGRSCPPCHEVC
Endotoxin	Less than 1 EU/μg of rHuErbB3-f as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analyses.
Storage	This liquid suspension is stable for several months at 0-4 centigrade, but should be kept at -20 centigrade for long term storage. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 centigrade to -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	A white, semitransparent suspension, the normal content of each vial is 1 mg of rhErbB3-f, 1mg aluminum hydroxide and small amount of arginine, sodium chloride, sodium phosphate, and potassium phosphate.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at < -20 centigrade. Further dilutions

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	should be made in appropriate buffered solutions.

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, 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

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