ERBB3
Recombinant Human ErbB3 Fragment His

Catalog No.	CSI14849	**Quantity:**	5 µg
	CSI14850		20 µg
	CSI14851		1.0 mg

Alternate Names: HER3, LCCS2, ErbB-3, c-erbB3, erbB3-S, MDA-BF-1, c-erbB-3, p180-ErbB3, p45-sErbB3, p85-sErbB3

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.

Physical Appearance: A white semitransparent suspension at a concentration of 1 mg/ml.

Gene ID: 2065

Protein Accession No: NP_001973

Source: *E. coli*

Molecular Weight: Approximately 34 kDa, a single non-glycosylated fusion polypeptide chain, containing 171 amino acids (Ser20- Cys190) with N-terminus Thioredoxin Tag and His tag.

Formulation: A white, semitransparent suspension, the normal content of each vial is 1 mg of rHuErbB3-f, 1 mg aluminum hydroxide and small amount of arginine, sodium chloride, sodium phosphate, and
potassium phosphate.

Purity: >95.0% by HPLC and SDS-PAGE

Endotoxin Level: Less than 1EU/µg of rHuErbB3-f as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The specific activity is determined by postponing tumor emerge time of spontaneous breast cancer in FVB/N transgenic mice and inhibiting the development of tumor, effectively inhibit the growth of in situ transplanted breast cancer in FVB/N transgenic mice.

Amino Acid Sequence: SEVGNSQAVC PGTLNGLSVT GDAENQYQTL YKLYERCEVV MGNLEIVLTG HNADLSFLQW IREVTGYVLV AMNEFSTLPL PNLRVVRGTQ VYDGKFAIFV MLNYNTNSSH ALRQLRLTQL TEILSGGVYI EKNDKLCHMD TIDWRDIVRD RDAEIVVKDN GRSCPPCHEV C

Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com

Dilution: It is recommended that sterile phosphate-buffered saline containing 1 mg aluminum hydroxide be added to the vial to prepare a stock solution.

Storage & Stability: This liquid suspension is stable for several months at 2-4°C, but should be kept at -20°C for long term storage. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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