

ErbB3-f, Human

Cat. No.: Z02748-20

Size: 20.0 ug

Synonyms: ErbB3 Fragment (ErbB3-f), Human;

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.

Amino Acid Sequence:

```
00001 SEVGN SQAVC PGT L NGL SVT GDAEN QYQTL YKLYRCEV V
00041 MGNLEIVLTG H NADLSFLQW IREVTGYVLV AMNEFSTLPL
00081 PNLRVVRGTQ VYDGKFAIFV MLNYNTNSSH ALRQLRLTQL
00121 TEILSGGVYI EKNDKLCHMD TIDWRDIVRD RDAEIVVKDN
00161 GRSCPPCHEV C
```

Source: *E. coli*

Species: Human

Biological 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 tumor, effectively inhibit the growth of in situ transplanted breast cancer in FVB/N transgenic mice.

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 in 1mg aluminum hydroxide and small amount of arginine, sodium chloride, sodium phosphate, and potassium phosphate.

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

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

Purity: >95% by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 0.2EU/ug of rHuErbB3-f as determined by LAL method.

Storage: This liquid suspension is stable for several months at 0-4°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 -70°C. Avoid repeated freeze/thaw cycles.