

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human ErbB3 Fragment (rHu ErbB3-f)

Catalog Number: PR1023

Source: Escherichia coli.

Quantity: 5µg/20µg/1.0mg

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.

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.

Purity:

>95% by SDS-PAGE and HPLC analyses.

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.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

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.

AA Sequence:

MSDKIIHLTDDSFDTDVLKADGAILVD
FWAECWCGPCKMIAPILDEIADEYQGKL
TVAKLNIDQNPGTAPKYGIRGIPTLLLF
KNGEVAATKVGALSKGQLKEFLDANL
AGSGSGHMHHPDLGTD DDDKAM
ADIGSEVGN SQAVCPGTLNGLSVTGDA
ENQYQTLYKLYERCEVVMGNLEIVLTG
HNADLSFLQWIREVTGYVLVAMNEFST
LPLPNLRVVRGTQVYDGKFAIFVMLNY
NTNSSHALRQLRLTQLTEILSGGVYIEK
NDKLC HMDTIDWRDIVRDRDAEIVVK
DNGRSCPPCHEVC

Endotoxin:

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

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°C.

MADE IN CHINA

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Further dilutions should be made in appropriate buffered solutions.

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.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

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