



Technical Data Sheet

Recombinant Human ErbB3 Fragment (rHu ErbB3-f)

Recombinant Human Betacellulin

Betacellulin (BTC) is a member of the EGF family of cytokines that also includes EGF, TGF- α , Amphiregulin, HB-EGF, Epiregulin, Tomoregulin and the Neuregulins. At the amino acid sequence level, human mature BTC protein exhibits 80% identity with mouse BTC protein. BTC is expressed in most tissues including kidney, uterus, liver and pancreas. It is also present in body fluids, including serum, milk, and colostrum.

Catalog Number:	RC218-22
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 34 KDa, a single non-glycosylated fusion protein containing the extracellular domain of human ErbB3 fragment (190 amino acids, Met1-Cys190).
Quantity:	5ug/20ug/1mg
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:	A white semitransparent suspension at a concentration of 1 mg/ml.
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:	MRANDALQVL GLLFSLARGS EVGNSQAVCP GTLNGLSVTG DAENQYQTLY KLYERCEVVM GNLEIVLTGH NADLSFLQWI REVTGYVLVA MNEFSTLPLP NLRVVRGTQV YDGKFAIFVM LNYNTNSSHA LRQLRLTQLT EILSGGVYIE KNDKLCHMDT IDWRDIVRDR DAEIVVKDNG RSCPPCHEVC
Endotoxin:	Less than 1EU/ μ g of rHuErbB3-f as determined by LAL method.
Dilution:	It is recommended that sterile phosphate-buffered saline containing 1mg aluminum hydroxide be added to the vial to prepare a stock solution.
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



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Usage:

freeze/thaw cycles.

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