
Product Data Sheet

Product Name: ErbB3 Human, sf9

Cat. No.: GP22492

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms Tyrosine Kinase ErbB-3; sf9; ErbB3 sf9; Receptor tyrosine-protein kinase erbB-3; ERBB3; Proto-oncogene-like protein c-ErbB-3; Tyrosine kinase-type cell surface receptor HER3; HER3; Receptor tyrosine-protein kinase erbB-3 isoform; c-erbB-3; ErbB-3; erbB3-S; LCCS2; MDA-BF-1; p180-ErbB3; p45-sErbB3; p85-sErbB3.

Amino Acid Sequence SEVGNSQAVC PGTNLGLSVT GDAENQYQTL YKLYERCEVV MGNLEIVLTG HNADLSFLQW IREVTGYVLV AMNEFSTLPL PNLRVVRGTQ VYDGKFAIFV MLNYNTNSSH ALRQLRLTQL TEILSGGVYI EKNDKLCHMD TIDWRDIVRD RDAEIVVKDN GRSCPPCHEV CKGRCWGP GS EDCQTLTKTI CAPQCNGHCF GPNPNQCCHD ECAGGCSGPQ DTDCFACRHF NDSGACVPRC PQPLVYNKLT FQLEPNPHTK YQYGGVCVAS CPHNFVVDQT SCVRACPPDK MEVDKNGLKM CEPCGGLCPK ACEGTGSGSR FQTVDSSNID GFVNCTKILG NLDLITGLN GDPWHKIPAL DPEKLNVFRT VREITGYLNI QSWPPHMHNF SVFSNLTTIG GRSLYNRGFS LLIMKLNVT SLGFRSLKEI SAGRIYISAN RQLCYHHS LN WTKVLRGPTE ERLDIKHNRP RRDCVAEGKV CDPLCSSGGC WGP GPGQCLS CRNYSRGGVC VTHCNFLNGE PREFAHEAEC FSCHPECQPM EGTATCNGSG SDTCAQCAHF RDGPHCVSSC PHGVLGAKGP IYKYPDVQNE CRPCHENCTQ GCKGPELQDC LGQTLVLIGK THLTRSPKSC DKTHTCPPCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSRDELTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTTPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSVMHE ALHNHYTQKS LSLSPGKHHH HHH.

Formulation ErbB3 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Caution: Product has not been fully validated for medical applications. For research use only.

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Introduction

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). ErbB3 can induce specific antibody production in vivo, hence to inhibit tumor cell growth. ErbB-3 can be used to treat early, medium and advanced or post-operative breast cancer with over-expression of ErbB2. According to its mechanism of action, ErbB3 is classified as a therapeutic for cancer.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ErbB3 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 863 amino acids (20-643 a.a.) and having a molecular mass of 95.6kDa (Migrates at 100-150kDa on SDS-PAGE under reducing conditions). ErbB3 is expressed with a 239 amino acid hIgG-Histag at C-Terminus and purified by proprietary chromatographic techniques.

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