
Product Data Sheet

Product Name: ErbB4 Human

Cat. No.: GP26187

Batch No.: 1

Product Data

Purity >98% Source HEK293 Cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Receptor tyrosine-protein kinase erbB-4, Proto-oncogene-like protein c-ErbB-4, Tyrosine kinase-type cell surface receptor HER4, p180erbB4, 4ICD, E4ICD, s80HER4, ERBB4, HER4, receptor tyrosine-protein kinase erbB-4 isoform JM-a/CVT-1, receptor tyrosine-protein kinase erbB-4, tyrosine kinase-type cell surface receptor HER4, avian erythroblastic leukemia viral (v-erb-b2) oncogene homolog 4, proto-oncogene-like protein c-ErbB-4, ALS19, v-erb-a erythroblastic leukemia viral oncogene homolog 4, v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 4, human epidermal growth factor receptor 4.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Amino Acid Sequence	<p> QSV CAGTENK LSSLSDLEQQ YRALRKYYEN CEVVMGNLEI TSIEHNRDLS FLRSVREVTG YVLVALNQFR YLPLENLR II RGTKLYEDRY ALAIFLNYRK DGNFGLQELG LKNLTEILNG GVVVDQNKFL CYADTIHWQD IVRNPWPSNL TLVSTNGSSG CGRCHKSTG RCWGP TENHC QTLTRTVCAE QCDGRCYGPY VSDCCHRECA GGCSGPKDTD CFACMNFNDS GACVTQCPQT FVYNPTTFQL EHNFNKYTY GAFCVKKCPH NFVVDSSSCV RACPSSKMEV EENGIKMCKP CTDICPKACD GIGTGSLMSA QTV DSSNIDK FINCTKINGN LIFLVTGIHG DPYNAIEAID PEKLN VFRTV REITGFLNIQ SWPPNMTDFS VFSNLVTIGG RVLYSGLSLL ILKQQGITS L QFQSLKEISA GNIYITDNSN LCYYHTINWT TLFSTINQRI VIRDNRKAEN CTAEGMVCNH LCSSDGCWGP GPDQCLSCRR FSRGRICIES CNLYDGEFRE FENGSI CVEC DPQCEK MEDG LLTCHGPGPD NCTKCSHF KD GPNCVEKCPD GLQGANSFIF KYADPDRECH PCHPNCTQGC NGPTSHDCIY YPWTGHSTLP QHARLEPKSC DKHTHTCPPCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSRDELTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTTPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSVMHE ALHNHYTQKS LSLSPGKHHH HHH </p>
Formulation	<p>The ErbB4 solution (0.25mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.</p>

Introduction

Tyrosine Kinase ErbB-4 (ErbB4) is a receptor tyrosine kinase that is a member of the epidermal growth factor receptor family whose members play a role as receptors for the EGF family of growth factors. ErbB4 is a single-pass type I transmembrane protein with multiple furin-like cysteine rich domains, PDZ domain binding motif, a tyrosine kinase domain and a phosphatidylinositol-3 kinase binding site. ErbB4 binds its ligands with low affinity and is expressed in normal skeletal muscle, heart, pituitary, brain and some breast carcinomas. Monomeric ErbB4 takes part in neuronal development and development of the heart and cancer.

Biological Activity

Measured by its binding ability in a functional ELISA with Human NRG1 (CAT# cyt-1186). The ED50 range \leq 0.2 ug/ml.

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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

ErbB4 Human Recombinant produced in HEK293 Cells is a single, glycosylated polypeptide chain containing 863 amino acids (26-649 a.a) and having a molecular mass of 96.6 kDa. ErbB4 is fused to a 239 amino acid hIgG-His-Tag at C-terminus & purified by proprietary chromatographic techniques.

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