
Product Data Sheet

Product Name: EPHB1 Human
 Cat. No.: GP26286
 Batch No.: 1

Product Data

Purity >98% Source HEK293 Cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms EPHB-1, Ephrin type-B receptor 1, Eph Receptor B1, ELK, EPH tyrosine kinase 2, EPH-like kinase 6, EK6, hEK6, HEK6, Neuronally-expressed EPH-related tyrosine kinase, NET, NETHeK6, Tyrosine-protein kinase receptor EPH-2, EPHT2, soluble EPHB1 variant 1

Amino Acid Sequence
 MEETLMDTRT ATAELGWTAN PASGWEEVSG YDENLNTIRT YQVCNVFEPN
 QNNWLLTTFI NRRGAHRIYT EMRFTVRDCS SLPNVPGSCK ETFNLYYYET
 DSVIATKKSA FWSEAPYLKV DTIAADESFS QVDFGGRLMK VNTEVRSFGP
 LTRNGFYLAQ QDYGACMSLL SVRVFFKKCP SIVQNFAVFP ETMTGAESTS
 LVIARGTCIP NAAEVDVPIK LYCNGDGEWM VPIGRCTCKP GYEPENSVAC
 KACPAGTFKA SQEAEGCSHC PSNSRSPAEA SPICTCRTGY YRADFDPEV
 ACTSVPSGPR NVISIVNETS ILEWHPPRE TGGRDDVTYN IICKKCRADR
 RSCSRCDDNV EFVPRQLGLT ECRVSISSLW AHTPYTFDIQ AINGVSSKSP
 FPPQHVSUNI TTNQAAPSTV PIMHQVSATM RSITLSWPQP EQPNGIILDY
 EIRYYEKEHN EFNSSMARSQ TNTARIDGLR PGMVYVQVR ARTVAGYGKF
 SGKMCQTLT DDDYKSELRE QLPHHHHHH

Formulation The EPHB1 solution (0.25mg/1ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.

Introduction

EPH Receptor B1 (EPHB1) is a member of the ephrin receptor subfamily of the proteintyrosine kinase family which 16 receptors are known. EPHB1 binds ephrin-B2, ephrin-B1, ephrin-A3, ephrin-A1, ephrin-B3 and ephrin-A4. EPHB1 binds tyrosine kinase and phosphorylates syndecan-2 and this phosphorylation is necessary for syndecan-2 clustering and spine formation. Ephrin receptors and their ligands (the ephrins) mediate several developmental processes, mainly in the nervous system.

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

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Biological Activity

Measured by its binding ability in a functional ELISA with Human EFN1 (cat# pro-2543).

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

EPHB1 Human Recombinant produced in HEK293 Cells is a single, glycosylated polypeptide chain containing 529 amino acids (18-540 a.a) and having a molecular mass of 59.2 kDa. EPHB1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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