

Recombinant human EphB1 protein

Catalog Number: ATGP4038

PRODUCT INFORMATION

Expression system

HEK293

Domain

18-540aa

UniProt No.

P54762

NCBI Accession No.

NP_004432.1

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

59.2 kDa (529aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured by its binding ability in a functional ELISA with Human EFNB1 (CAT# ATGP3800).

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

EphB1 also known as Ephrin type-B receptor 1, is a member of the ephrin receptor subfamily of the protein-tyrosine kinase family which 16 known receptors. EphB1 has been shown to bind ephrin-B2, ephrin-B1, ephrin-A3, ephrin-A1, ephrin-A4, and ephrin-B3. It binds to tyrosine kinase phosphorylates syndecan-2 and that this phosphorylation event is crucial for syndecan-2 clustering and spine formation. Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. The ephrin/Eph families also appear to play a role in angiogenesis. Recombinant human EPHB1, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

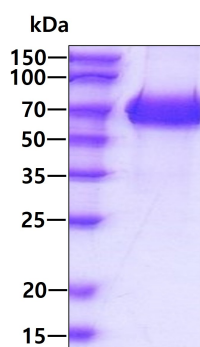
MEETLMDTRT ATAELGWTAN PASGWEEVSG YDENLNTIRT YQVCNVFEPN QNNWLLTTFI NRRGAHRIYT EMRFTVRDCS
SLPNVPGSCK ETFNLYYYET DSVIATKKSA FWSEAPYLKV DTIAADESFS QVDFGGRLMK VNTEVRSFGP LTRNGFYLA
QDYGACMSLL SVRVFFKKCP SIVQNFAVFP ETMTGAESTS LVIARGTCIP NAEEDVPIK LYCNGDGEWM VPIGRCTCKP
GYEPENSVAC KACPAGTFKA SQAEGCSHC PSNSRSPAEA SPICTCRTGY YRADFDPEV ACTSVPSGPR NVISIVNETS
IILEWHPPRE TGGRDDVTYN IICKKCRADR RSCSRCDNV EFVPRQLGLT ECRVSISSLW AHTPYTFDIQ AINGVSSKSP
FPPQHVSUNI TTNQAAPSTV PIMHQVSATM RSITLSWPQP EQPNGIILDY EIRYYEKEHN EFNSSMARSQ TNTARIDGLR
PGMVVVQVR ARTVAGYGKF SGKMCFTLT DDDYKSELRE QLP<HHHHHH>

General References

Eph Nomenclature Committee. Cell 90:403-404.
Pasquale, E.B. (1997) Curr. Opin. Cell Biol. 9:608-615.
Adams RH, et al. (1999). Genes Dev. 13: 295-306.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity

Recombinant human EphB1 protein

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Human EPHB1 is coated at 2 ug/ml (100 ul/well) can bind Human EFNB1 (CAT# ATGP3800) in a Functional ELISA assay.

