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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

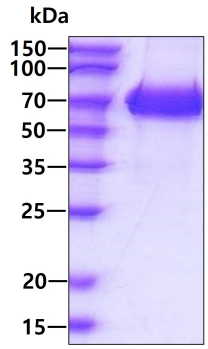
MEETLMDTRT ATAELGWTAN PASGWEEVSG YDENLNTIRT YQVCNVFEPN QNNWLLTTFI NRRGAHRIYT EMRFTVRDCS SLPNVPGSCK ETFNLYYYET DSVIATKKSA FWSEAPYLKV DTIAADESFS QVDFGGRLMK VNTEVRSFGP LTRNGFYLAF QDYGACMSLL SVRVFFKKCP SIVQNFAVFP ETMTGAESTS LVIARGTCIP NAEEVDVPIK LYCNGDGEWM VPIGRCTCKP GYEPENSVAC KACPAGTFKA SQEAEGCSHC PSNSRSPAEA SPICTCRTGY YRADFDPPEV ACTSVPSGPR NVISIVNETS IILEWHPPRE TGGRDDVTYN IICKKCRADR RSCSRCDDNV EFVPRQLGLT ECRVSISSLW AHTPYTFDIQ AINGVSSKSP FPPQHVSVNI TTNQAAPSTV PIMHQVSATM RSITLSWPQP EQPNGIILDY EIRYYEKEHN EFNSSMARSQ TNTARIDGLR PGMVYVVQVR ARTVAGYGKF SGKMCFQTLT 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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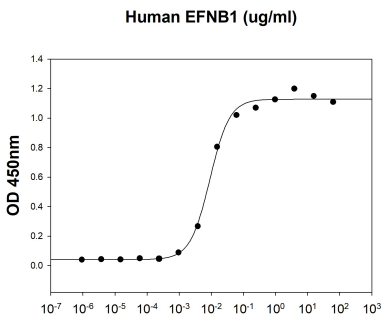

Human EPHB1 is coated at 2 ug/ml (100 ul/well) can bind Human EFNB1 (CAT# ATGP3800) in a Functional ELISA assay.