

# Recombinant human EphB1 protein

Catalog Number: ATGP4038

## PRODUCT INFORMATION

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### 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

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### 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

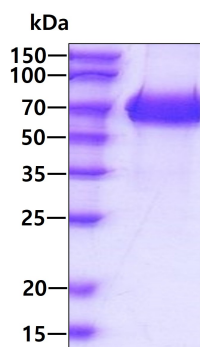
MEETLMDTRT ATAELGWTAN PASGWEEVSG YDENLNTIRT YQVCNVFEPN QNNWLLTTFI NRRGAHRIYT EMRFTVRDCS  
SLPNVPGSCK ETFNLYYET DSVIATKKS A FWSEAPYLKV DTIAADESFS QVDFGGRLMK VNTEVRSFGP LTRNGFYLAF  
QDYGACMSLL SVRVFFKKCP SIVQNFAVFP ETMTGAESTS LVIARGTCIP NAEVDVPIK LYCNGDGEWM VPIGRCTCKP  
GYEPENSVAC KACPAGTFKA SQAEGCSHC PSNSRSPAEA SPICTCRTGY YRADFDPEV ACTSVPSGPR NVISIVNETS  
IILEWHPPRE TGGRDDVTYN IICKKCRADR RSCSRCDNV EFVPRQLGLT ECRVSISSLW AHTPYTFDIQ AINGVSSKSP  
FPPQHVSUNI TTNQAAPSTV PIMHQVSATM RSITLSWPQP EQPNGILDY 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.

