

# Recombinant human Ephrin-B1 protein

Catalog Number: ATGP3800

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

28-237aa

### UniProt No.

P98172

### NCBI Accession No.

NP\_004420

### Alternative Names

Ephrin B1, EFN1, EFL-3, ELK ligand, ELK-L, EPH-related receptor tyrosine kinase ligand 2, LERK-2, EPLG2, craniofrontonasal syndrome, CFNS

## PRODUCT SPECIFICATION

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### Molecular Weight

50.3 kDa (452aa)

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

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

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 0.1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured by its binding ability in a functional ELISA with Human EphB2 (CAT# ATGP3493). The ED50 range  $\leq$  100 ng/ml. Measured by its binding ability in a functional ELISA with Human EPHB1 (CAT# ATGP4038). The ED50 range  $\leq$  40 ng/ml.

### Tag

hIgG-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.

# Recombinant human Ephrin-B1 protein

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## BACKGROUND

### Description

EFNB1, also known as ephrin-B1, is a member of Eph family. It binds to the receptor tyrosine kinases EPHB1 and EPHA1. This protein also binds Eph receptors residing on adjacent cells which affect signaling to neighboring cells. It plays a role in cellular migration, axon guidance, osteoclast differentiation and function, cardiac muscle morphogenesis, and tumorigenesis. Recombinant human EFNB1 protein, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

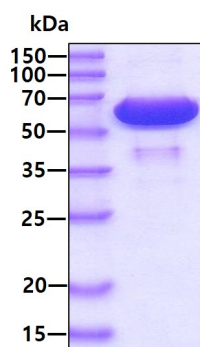
<ADP>LAKNLEP VSWSSLNPKF LSGKGLVIYP KIGDKLDIIC PRAEAGRPYE YYKLYLVRPE QAAACSTVLD PNVLVTCNRP EQEIRFTIKF QEFSPNYMGL EFKKHHDYIYI TSTSNGSLEG LENREGGVCR TRTMKIIMKV GQDPNAVTPPE QLTTSRPSKE ADNTVKMATQ APGSRGSLGD SDGKHETVNQ EEKSGPGASG GSSGDPDGFF NSK<LEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPYSDIAVEW ESNGQPENNY KTTTPVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGKHHHH HH>

### General References

Hu Y., et al, (2015) Arthritis Rheumatol. 67:1778-1788.  
Gibson J., et al, (2017) Dev Biol. 431:179-193.

## DATA

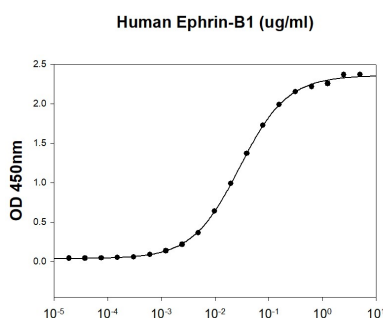
### SDS-PAGE



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

### Biological Activity

Human EphB2 (CAT# ATGP3493) is coated at 2 ug/ml (100 ul/well) can bind Human Ephrin-B1. The ED50 range  $\leq$  100 ng/ml.



# Recombinant human Ephrin-B1 protein

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Human EPHB1 (CAT# ATGP4038) is coated at 2 ug/ml (100 ul/well) can bind Human Ephrin-B1. The ED50 range  $\leq$  40 ng/ml.

