

Recombinant human Ephrin-B1 protein

Catalog Number: ATGP3800

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

28-237aa

UniProt No.

P98172

NCBI Accession No.

NP_004420

Alternative Names

Ephrin B1, EFNB1, EFL-3, ELK ligand, ELK-L, EPH-related receptor tyrosine kinase ligand 2, LERK-2, EPLG2, craniofrontonasal syndrome, CFNS

PRODUCT SPECIFICATION

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

Catalog Number: ATGP3800

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 QEFSPTYMGL EFKKHHDYYI TSTNGSLEG LENREGGVCR TRTMKIIMKV GQDPNAVTP EQLTTSRPSKE ADNTVKMATQ APGSRGSLGD SDGKHETVNQ EEKSGPGASG GSSGDPDGFF NSK<LEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNAKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTTPVLDSG GSFFLYSKLT VDKSRWQQGN VFSCSVMEHA LHNHYTQKSL SLSPGKHHHH HH>

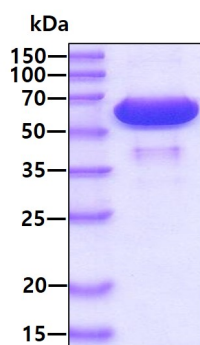
General References

Hu Y., et al, (2015) Arthritis Rheumatol. 67:1778-1788.

Gibson J., et al, (2017) Dev Biol. 431:179-193.

DATA

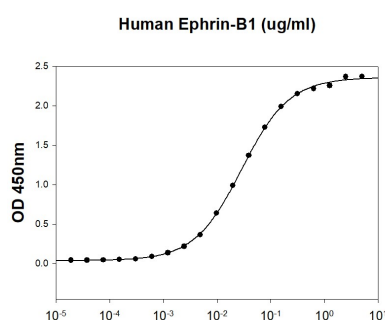
SDS-PAGE



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

Catalog Number: ATGP3800

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

