Recombinant mouse Ephrin-B2 protein

Catalog Number: ATGP3212

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
29-232aa

UniProt No.
P52800

NCBI Accession No.
NP_034241

Alternative Names
Efnb2, ELF-2, Epl5, Eplg5, Htk-L, LERK-5, Lerk5, NLERK-1, EPH-related receptor tyrosine kinase ligand 5, HTK ligand

PRODUCT SPECIFICATION

Molecular Weight
23.4 kDa (212aa)

Concentration
0.5mg/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
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

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.

BACKGROUND

Description
EFNB2, also known as ephrin-B2, is cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. The signaling pathway downstream of the receptor is referred to as forward signaling while the

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signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. It binds to receptor tyrosine kinase including EPHA4, EPHA3 and EPHB4. Together with EPHB4 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells. It may play a role in constraining the orientation of longitudinally projecting axons. Recombinant mouse EFNB2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

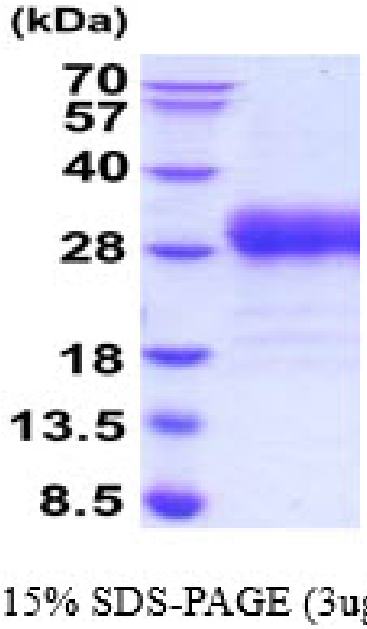
RSIVLEPIYW NSSNSKFLPG QGLVLYPQIG DKLDIICPKV DSKTVGQYEY YKVYMVDKDQ ADRCTIKKEN TPLLNCARPD QDVKFTIKFQ EFSPNLWGLE FQKNKDYYII STSNGSLEGL DNQEGGVCQT RAMKILMKVG QDASSAGSAR NHGPTRRPEL EAGTNGRSST TSPFVKPNPG SSTDGNSAGH SGNNLLGSEV ALFALEHHHH HH

General References

Bergemann A. D., et al. (1995) Mol. Cell. Biol. 15: 4921-4929.
Imondi R., et al. (2000) Development 127:1397-1410.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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