

# Recombinant mouse Ephrin-B2 protein

Catalog Number: ATGP3212

## PRODUCT INFORMATION

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### 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

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### 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

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### 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 DSKTVGQY EY YKVY MVDKDQ ADRCTIKKEN TPLLNCARP  
DQVKFTIKFQ EFSPNLWGLE FQKNKDYII STSNGSLEGL DNQEGGVCQT RAMKILMKVG QDASSAGSAR NHGPTRRPEL  
EAGTNGRSST TSPFVKPNPG SSTDGN SAGH SGNNLLGSEV ALFALEHHHH HH

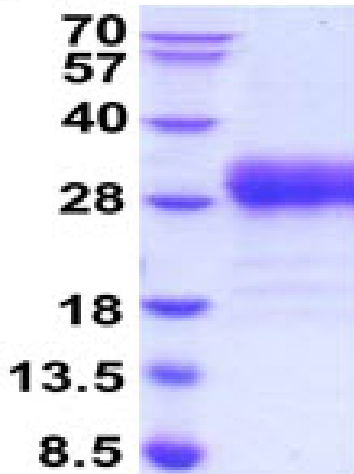
## General References

Bergemann A. D., et al. (1995) Mol. Cell. Biol. 15: 4921-4929.

Imondi R., et al. (2000) Development 127:1397-1410.

## DATA

### SDS-PAGE

**(kDa)**

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

15% SDS-PAGE (3ug)