

# Recombinant human Ephrin-B3 protein

Catalog Number: ATGP1658

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

28-226aa

### UniProt No.

Q15768

### NCBI Accession No.

NP\_001397

### Alternative Names

Ephrin-B3, EFL6, EPLG8, LERK8, EPH-related receptor transmembrane ligand ELK-L3, EPH-related receptor tyrosine kinase ligand 8

## PRODUCT SPECIFICATION

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### Molecular Weight

24.6 kDa (224aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 2M urea

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

EFNB3, also known as ephrin-B3, a member of the ephrin gene family, is important in brain development as well as in its maintenance. It binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Binds to, and induce the collapse of, commissural axons/growth cones in vitro. Recombinant

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human EFNB3 protein, fused to His-tag at N-terminus, was expressed in E. coli.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSHM>LSLEP VYWNSANKRF QAEGGYVLYP QIGDRDLLC PRARPPGPHS  
SPNYEFYKLY LVGGAQGRRC EAPPAPNLLL TCDRPDLDR FTIKFQEYSP NLWGHEFRSH HDYIIATSD GTREGLESLO  
GGVCLTRGMK VLLRVGQSPR GGAVPRKPVS EMPMERDRGA AHSLEPGKEN LPGDPTSNAT SRGAEGPLPP PSMP

## General References

Negrete O.A., et al. (2006) PLoS Pathog. 2:78-86

Brueckner K., et al. (1999) Neuron. 22:511-524

## DATA

### SDS-PAGE

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

