

# Recombinant human Ephrin-B2 protein

Catalog Number: ATGP1220

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

28-229aa

### UniProt No.

P52799

### NCBI Accession No.

NP\_004084.1

### Alternative Names

Ephrin B2, EFNB2, EPH-related receptor tyrosine kinase ligand 5, ligand of eph-related kinase 5, LERK-5, HTK ligand, HTK-L, EPLG5, HTKL

## PRODUCT SPECIFICATION

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### Molecular Weight

24.9 kDa (227aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 40% glycerol, 200mM NaCl, 1mM EDTA

### Purity

> 85% by SDS-PAGE

### 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

Ephrin-B2 is a member of the ephrin (EPH) family. The ephrins and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, especially in the nervous system and in erythropoiesis. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. It binds

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to the EPHB4 and EPHA3 receptors. Recombinant human EFNB2 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

## Amino acid Sequence

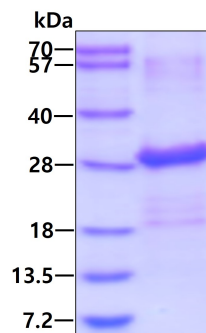
<MGSSHHHHHH SSGLVPRGSH MGSHM>IVLEP IYWNSSNSKF LPGQGLVLYP QIGDKLDIIC PKVDSKTVGQ  
YEYYKVYIMVD KDQADRCTIK KENTPLLNCA KPDQDIKFTI KFQEFSPNLW GLEFQKNKDY YIISTSNGSL EGLDNQEGGV  
CQTRAMKILM KVGQDASSAG STRNKDPTRR PELEAGTNGR SSTTSPFVKP NPGSSTDGNS AGHSGNNILG SEVALFA

## General References

Jensen, P.L. et al. (2000) *Stem Cells* 18: 63-6  
Cerretti, et al. (1995). *Mol. Immunol. (ENGLAND)* 32 (16): 1197-205.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.