

AR50482PU-S**Human Ephrin-B3 (28-226, His-tag) - Purified****Alternate names:**

EFNB3, ELK-L3, EPH-related receptor transmembrane ligand ELK-L3, EPH-related receptor tyrosine kinase ligand 8, EPLG8, LERK-8, LERK8

Quantity:

0.1 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:[Q15768](#)**NCBI:**[NP_001397](#)**GeneID:**[1949](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >90% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 2M urea**Description:**

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

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSMLSLSEP VYWNSANKRF QAEGGYVLYP QIGDRLDLLC
PRARPPGPHS SPNYEFYKLY LVGGAQGRRC EAPPAPNLLL TCDRPDLDR FTIKFQEYSP
NLWGHEFRSH HDYYIIATSD GTREGLESIQ GGVCLTRGMK VLLRVGQSPR GGAVPRKPVV
EMPMERDRGA AHSLEPGKEN LPGDPTSNAT SRGAEGPLPP PSMP

Molecular weight: 24.6 kDa (224aa)**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Negrete O.A., et al. (2006) PLoS Pathog. 2:78-86
2. Brückner K, Pablo Labrador J, Scheiffele P, Herb A, Seeburg PH, Klein R. EphrinB ligands recruit GRIP family PDZ adaptor proteins into raft membrane microdomains. Neuron. 1999 Mar;22(3):511-24. PubMed PMID: 10197531.

Pictures:

