

**Synonym**

EFNB1,EFL-3,ELK ligand,ELK-L,EPLG2,LERK2,CFND,CFNS

**Source**

Human Ephrin-B1, His Tag (EF1-H5223) is expressed from human 293 cells (HEK293). It contains AA Leu 28 - Gly 232 (Accession # NP\_004420).

Predicted N-terminus: Leu 28

**Molecular Characterization**

|  |          |
|--|----------|
| Ephrin-B1(Leu 28 - Gly 232)<br>NP_004420 | Poly-his |
|--|----------|

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 23.6 kDa. The protein migrates as 32-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

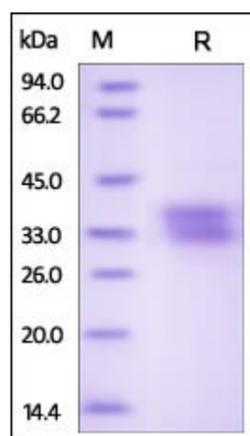
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human Ephrin-B1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Background**

Ephrin-B1 (EFNB1) is also known as EFL-3, ELK ligand, EPH-related receptor tyrosine kinase ligand 2 (LERK-2), which belongs to the ephrin family. EFNB1 contains one ephrin RBD (ephrin receptor-binding) domain. EFNB1 binds to the receptor tyrosine kinases EPHB1 and EPHA1. EFNB1 binds to, and induce the collapse of, commissural axons/growth cones in vitro. EFNB1 may play a role in constraining the orientation of longitudinally projecting axons. EFNB1 interacts with GRIP1 and GRIP2.

**References**

- (1) [Zhang Z., et al., 2004, Protein Sci. 13:2819-2824.](#)
- (2) [Brueckner K., et al., 1999, Neuron 22:511-524.](#)

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.