

Recombinant Human Ephrin-B1/EFNB1 Protein

Catalog No.: RP00250 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	1947	P98172

Tags

C-hFc&His

Synonyms

EFNB1;CFND;CFNS;EFB1;EFL3;EPLG2;Elk-L;LERK2;ephrin-B1

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
49.19 kDa	60-70 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Ephrin-B1 also known as EFNB1, is a member of the ephrin family. The transmembrane-associated ephrin ligands and their Eph family of receptor tyrosine kinases are expressed by cells of the SVZ. Eph/ephrin interactions are implicated in axon guidance, neural crest cell migration, establishment of segmental boundaries, and formation of angiogenic capillary plexi. Eph receptors and ephrins are divided into two subclasses, A and B, based on binding specificities. Ephrin subclasses are further distinguished by their mode of attachment to the plasma membrane: ephrin-A ligands bind EphA receptors and are anchored to the plasma membrane via a glycosylphosphatidylinositol (GPI) linkage, whereas ephrin-B ligands bind EphB receptors and are anchored via a transmembrane domain. An exception is the EphA4 receptor, which binds both subclasses of ephrins.

Basic Information

Description

Recombinant Human Ephrin-B1/EFNB1 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Leu 28 - Gly 232) of human Ephrin-B1 (Accession #NP_004420.1) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse EphB2 (Catalog: RP01156) at 2 μg/mL (100 μL/well) can bind Human EFNB1 (Catalog: RP00250) with a linear range of 0.01-0.54 ng/mL.

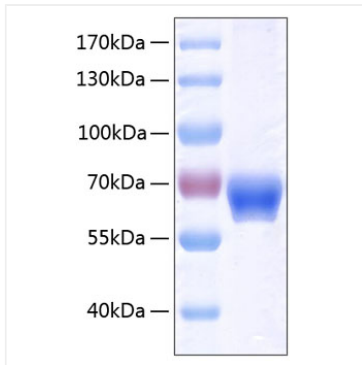
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Ephrin-B1/EFNB1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 65-70 kDa.