

Recombinant Human Ephrin-A4/EFNA4 Protein

Catalog No.: RP00143 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	1945	P52798

Tags

C-hFc&His

Synonyms

EFL4;EPLG4;LERK4;EFNA4

Product Information

Source	Purification
HEK293 cells	> 80% by SDS-PAGE.

Endotoxin

< 0.1 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

EPH-related receptor tyrosine kinase ligand 4 (Ephrin-A4) also known as EFNA4, is a member of the Ephrin family. The Eph family receptor interacting proteins (ephrins) are a family of proteins that serve as the ligands of the Eph receptor, which compose the largest known subfamily of receptor protein-tyrosine kinases (RTKs). Eph/ephrin interactions are implicated in axon guidance, neural crest cell migration, establishment of segmental boundaries, and formation of angiogenic capillary plexi. 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. Ephrin-A4/EFNA4 functions as a cell surface GPI-bound ligand for Eph receptor, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development.

Basic Information

Description

Recombinant Human Ephrin-A4/EFNA4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu26-Gly171) of human Ephrin-A4/EFNA4 (Accession # NP_005218.1) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human EphA7 at 0.5 μg/mL (100 μL/well) can bind Human EFNA4 with a linear range of 0.039-0.942 ng/mL.

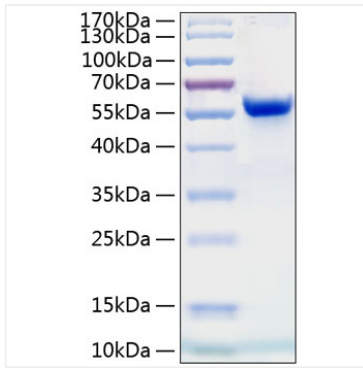
Storage

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

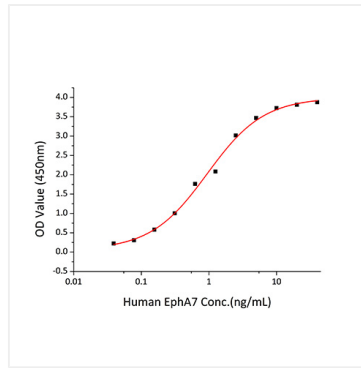
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Active Recombinant Human Ephrin-A4/EFNA4 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 50 kDa.



Immobilized Human EphA7 at 0.5 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Human EFNA4 with a linear range of 0.039-0.942 ng/mL.