

Recombinant Mouse Ephrin-A2/EFNA2 Protein

Catalog No.: RP01515 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	13637	P52801

Tags

C-His

Synonyms

Elf1;Epl6;CEK7L;Eplg6;Lerk6;EFNA2

Product Information

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

Calculated MW	Observed MW
19.71 kDa	25-30 kDa

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.


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.

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Background

Ephrin-A2 also known as EFNA2 or EPH-related receptor tyrosine kinase ligand 6, 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). Ephrin-A2 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. 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-A2 regulates the position-specific affinity of limb mesenchyme and is involved in cartilage pattern formation in the limb.

Basic Information

Description

Recombinant Mouse Ephrin-A2/EFNA2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg21-Asn184) of mouse Ephrin-A2 (Accession #NP_031935.3) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse EFNA2 (Catalog: RP01515) Protein at 2 μg/mL (100 μL/well) can bind Mouse EphA4 with a linear range of 4.88-129.3 ng/mL.

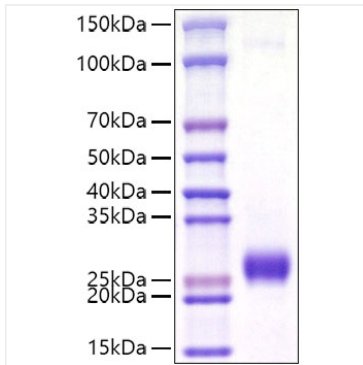
Storage

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

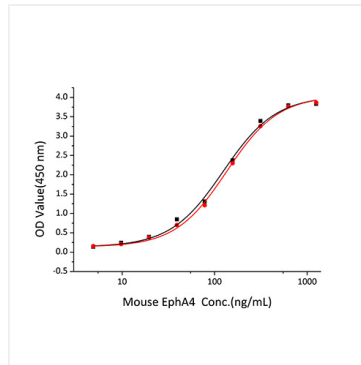
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse Ephrin-A2/EFNA2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-30kDa.



Immobilized Mouse EFNA2 Protein at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Mouse EphA4 with a linear range of 4.88-129.3 ng/mL.