

Recombinant Human Ephrin-A1/EFNA1 Protein

Catalog No.: RP01419 Recombinant 1 Publications

Sequence Information

Species Gene ID Swiss Prot Human 1942 P20827

Tags

C-His

Synonyms

B61; ECKLG; EFL1; EPLG1; LERK-1; LERK1:

TNFAIP4;EFNA1;ECKLG;EFL1;EPLG1;LERK -1;LERK1;TNFAIP4;ephrin-A1

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

20.20 kDa 26 kDa kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

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 stablizer (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 1 (abbreviated as Ephrin-A1) also known as ligand of eph-related kinase 1 or EFNA1, is a member of the ephrin (EPH) 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-A1/EFNA1 and its Eph family of receptor tyrosine kinases are expressed by cells of the SVZ. 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. Ephrin-A1 and one of its receptor EphA2 were expressed in xenograft endothelial cells and also tumor cells and play a role in human cancers, at least in part by influencing tumor neovascularization.

Basic Information

Description

Recombinant Human Ephrin-A1/EFNA1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp19-Ser182) of human Ephrin-A1/EFNA1 (Accession $\#NP_004419.2$) fused with a $6\times His$ tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human EFNA1 at 1 μ g/mL (100 μ L/well) can bind Human Ephrin A1 Rabbit mAb with a linear range of 0.098-2.066 ng/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

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

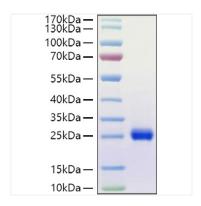
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

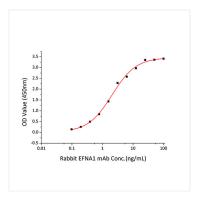
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human Ephrin-A1/EFNA1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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