

Recombinant Human Ephrin-A1/EFNA1 Protein

Catalog No.: RP01425 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	1942	P20827

Tags

C-hFc

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	> 90% by SDS-PAGE.

Calculated MW	Observed MW
45.32 kDa	55-60 kDa

Endotoxin

< 1 EU/μg 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 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

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

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 hFc tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human EphA2 at 1 μg/mL (100 μL/well) can bind Human EFNA1 with a linear range of 0.098-4.084 ng/mL.

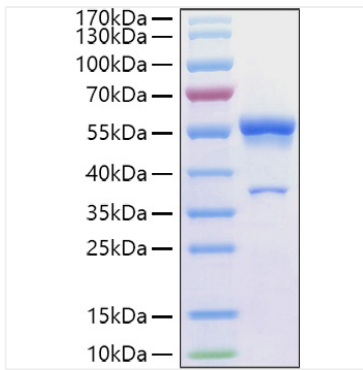
Storage

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

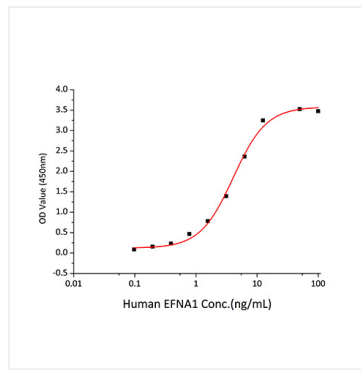
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Active Recombinant Human Ephrin-A1/EFNA1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55-60kDa.



Immobilized Human EphA2 at 1 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Human EFNA1 with a linear range of 0.098-4.084 ng/mL.