

Human Ephrin-A5 / EFNA5 Protein (Fc Tag)

Catalog Number: 10192-H02H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

EFNA5, AF1, EFL5, RAGS, EPLG7, GLC1M, LERK7

Protein Construction:

A DNA sequence encoding the extracellular domain (Met 1-Asn 203) of human Ephrin-A5 (NM_001962.1) precursor was expressed with the C-terminal fused Fc region of human IgG1.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 97 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gln 21

Molecular Mass:

The recombinant human Ephrin-A5/Fc chimera is a disulfide-linked homo-dimeric protein. The reduced monomer consists of 421 amino acids and has a calculated molecular mass of 47.9 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of the monomer is approximately 50-55 kDa due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

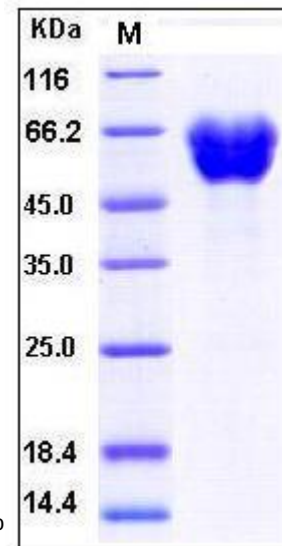
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution

in the products.

Protein Description

Ephrin-A5, also known as AL-1, RAGS, or LERK-7 (ligand for eph-related kinases, 7), is a member of the ephrin ligand family which binds the members of Eph receptor subfamily of tyrosine kinases. Based on their structure and sequence relationships, ephrins are divided into ephrin-A and ephrin-B class, and ephrin-A members are anchored to the membrane by GPI linkage. Ephrin-A5 is expressed with the highest levels in human adult brain, heart, spleen, and ovary and human fetal brain, lung, and kidney. This ligand has been reported to bind Eph A2, Eph A3, Eph A4, Eph A5, Eph A6, Eph A7, Eph A8, and Eph B2 receptors. The interactions between Eph receptors and their ephrin ligands have been implicated in mediating developmental events, particularly in the nervous system through regulating cell migration and axon pathfinding. It has been reported that Ephrin-A5 prevents axon bundling in cocultures of cortical neurons with astrocytes, a model of late stage nervous system development and differentiation.

References

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4. Himanen, J.P. et al., 2004, Nat. Neurosci. 7: 501-509.
5. Eberhart, J. et al., 2004, J. Neurosci. 24: 1070-1078.

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