

Recombinant Human Ephrin-A5/EFNA5 Protein

Catalog No.: RP00176

Sequence Information

Species	Gene ID
Human	1946
Swiss Prot	Tags
P52803	C-hFc&His

Synonyms

EFNA5, AF1, EFL5, EPLG7, GLC1M, LERK7, RAGS, ephrin-A5

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE.

Calculated MW/Observed MW

47.96 kDa 55–65 kDa

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.

Background

Ephrin-A5 also known as EFNA5, is a member of the Ephrin family, prevents axon bundling in cocultures of cortical neurons with astrocytes, a model of late stage nervous system development and differentiation. The EPH and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, particularly in the nervous system. EPH receptors typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin ligands and receptors have been named by the Eph Nomenclature Committee (1997). Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are similarly divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands.

Basic Information

Description

Recombinant Human Ephrin-A5/EFNA5 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln21–Asn203) of human Ephrin-A5/EFNA5 (Accession #NP_001953.1) fused with an Fc, 6×His tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Human EPHA2 at 0.5 μg/mL (100 μL/well) can bind Human EFNA5 with a linear range of 0.02–0.67 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

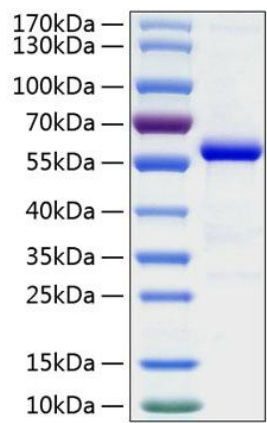
Operational Notes

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

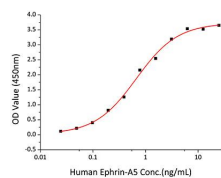
Contact

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Validation Data



Recombinant Human Ephrin-A5/EFNA5 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human EPHA2 at 0.5µg/mL (100 µL/well) can bind Human EFNA5 with a linear range of 0.02-0.67ng/mL.