Mouse Ephrin-A3 / EFNA3 Protein (His Tag)

Catalog Number: 50594-M08H



General Information

Gene Name Synonym:

AW494418; EFL-2; Ehk1-L; Epl3; LERK-3

Protein Construction:

A DNA sequence encoding the mouse EFNA3 (NP_034238.1) without the propertide (Met 1-Ser 205) was expressed, with a polyhistidine tag at the C-terminus

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 92 % as determined by SDS-PAGE

Bio Activity:

Measured by its binding ability in a functional ELISA . Immobilized mouse EphrinA3 at 1 μ g/ml (100 μ l/well) can bind mouse EPHA6 with a linear ranger of 6.25-400 ng/ml.

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 $^{\circ}\mathrm{C}$

Predicted N terminal: Gln 23

Molecular Mass:

The recombinant mouse EFNA3 consists of 194 amino acids and has a predicted molecular mass of 22.2 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rmEFNA3 is approximately 38 kDa due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 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:

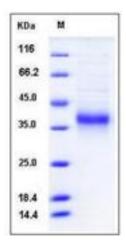
Store it under sterile conditions at $-20\,^\circ\mathbb{C}$ to $-80\,^\circ\mathbb{C}$ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Ephrin-A3 also known as EPH-related receptor tyrosine kinase ligand 3 or EFNA3, 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-A3 and their 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-A3 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-A3 expressed on astrocytes activates EphA4 on the post-synaptic neuron and restricts the growth of dendritic spines through multiple pathways.

References

1.Klein R. (2009) Bidirectional modulation of synaptic functions by Eph/ephrin signaling. Nat Neurosci. 12(1): 15-20. 2.Lai KO, *et al.* (2009) Synapse development and plasticity: roles of ephrin/Eph receptor signaling. Curr Opin Neurobiol. 19(3): 275-83. 3.Prevost N, *et al.* (2002) Interactions between Eph kinases and ephrins provide a mechanism to support platelet aggregation once cell-to-cell contact has occurred. Proc Natl Acad Sci U S A. 99(14): 9219-24.

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