Mouse Ephrin-A4 / EFNA4 Protein (Fc Tag)

Catalog Number: **50595-M02H**

Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

AW494418, EFL-2, Ehk1-L, Epl3, LERK-3, MGC129300, MGC129301

Protein Construction:

A DNA sequence encoding the mouse EFNA4 (NP_031936.2) without the pro peptide (Met 1-Gly 176) was fused with the Fc region of human IgG1 at the C-terminus.

Source: Mouse

Expression Host: Human Cells

QC Testing

Purity: > 92 % as determined by SDS-PAGE

Bio-Activity

Measured by its binding ability in a functional ELISA.
1. Immobilized human EphA7 at 2 μg/ml (100 μl/well) can bind mouse EphrinA4 Fc Chimera with a linear range of 0.08-10 ng/ml .
2. Immobilized mouse EphA7 at 2 μg/ml (100 μl/well) can bind mouse EphrinA4 Fc Chimera with a linear range of 0.08-10 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 ℃

Predicted N terminal: Leu 26

Molecular Mass:

The recombinant mouse EFNA4/Fc is a disulfide-linked homodimer. The reduced monomer consists of 392 amino acids and has a predicted molecular mass of 43.9 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rmEFNA4/Fc monomer is approximately 52 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.

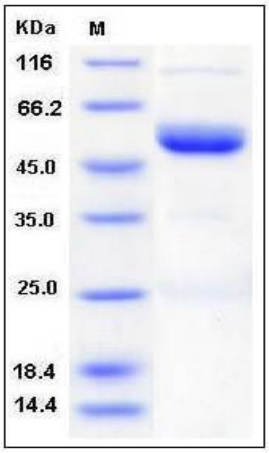
Usage Guide

Storage:

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

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

Ephrin-A4, also known as EPH-related receptor tyrosine kinase ligand 4, LERK-4 and EFNA4, is a cell membrane and secreted protein which belongs to theephrin family. Ephrin-A4 / EFNA4 is expressed in the adult spleen, lymph node, prostate, ovary, small intestine, and colon, and in fetal heart, lung, liver and kidney. It is also detected in hematopoietic cell lines. Ephrin-A4 / EFNA4 may play a role in the interaction between activated B lymphocytes and dendritic cells in tonsils. EFNA4-EphA2 interactions are involved in Chronic lymphocytic leukemia (CLL) cell trafficking between blood and the tissues and this may become a therapeutic target in the future. The ephrins (EPH) and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases (RTKs), and have been involved in a variety of biological processes, especially in the nervous system and in erythropoiesis, such as axon guidance and topographic map formation, synaptic plasticity, angiogenesis, and meanwhile have possible contributions to tumor growth and metastasis. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class which are anchored to the membrane by a GPI linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. 14 receptors and 8 ligands have been reported in mammals.

References

1. Zhou, R. Pharmacol. Ther. 77: 151-81.
2. Stein, E. et al., 1999, J. Neurosci. 19: 8885-93.
3. Cheng, N. et al., 2002, Cytokine. Growth. Factor. Rev. 13: 75-85.
4. Irie, F. et al., 2008, Proc. Nat. Acad. Sci. 105: 12307-12.
5. Trinidad, EM. et al., 2009, Blood. 114 (24): 5081-90.