

Mouse Ephrin B3 / EFNB3 Protein (ECD, Fc Tag)

Catalog Number: 51147-M02H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

EFL-6; ELF-3; Elk-L3; Epl8; LERK-8; NLERK-2

Protein Construction:

A DNA sequence encoding the mouse Efnb3 (NP_031937.1) (Met1-Ala227) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE.

Bio Activity:

1. Measured by its binding ability in a functional ELISA.
2. Immobilized mouse EPHB3-His(Cat:50581-M08H) at 10µg/mL (100µL/well) can bind mouse EFNB3-Fc(Cat:51147-M02H), the EC₅₀ of mouse EFNB3-Fc is 1-50 ng/mL.

Endotoxin:

< 1.0 EU per µg 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: Leu 28

Molecular Mass:

The recombinant mouse Efnb3 consists 438 amino acids and predicts a molecular mass of 48.8 kDa.

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:

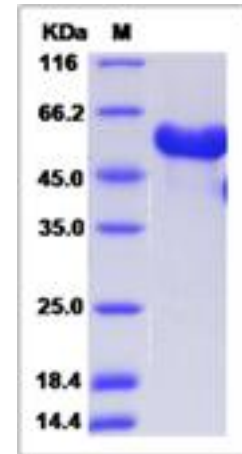
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Ephrin B3 belongs to the ephrin family. 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. Ephrin B3 is important in brain development as well as in its maintenance. It is especially important for forebrain function since its expression levels were particularly high in several forebrain subregions compared to other brain subregions. Ephrin B3 binds to, and induce the collapse of, commissural axons/growth cones in vitro. It may play a role in constraining the orientation of longitudinally projecting axons.

References

1. Takemoto M, et al. (2002) Ephrin-B3-EphA4 interactions regulate the growth of specific thalamocortical axon populations in vitro. *Eur J Neurosci.* 16(6):1168-72.
2. Brckner K, et al. (1999) EphrinB ligands recruit GRIP family PDZ adaptor proteins into raft membrane microdomains. *Neuron.* 22(3):511-24.
3. Bergemann A, et al. (1998) Ephrin-B3, a ligand for the receptor EphB3, expressed at the midline of the developing neural tube. *Oncogene.* 16(4):471-80.

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