

Danio rerio (zebrafish) EFNB2A / Ephrin B2a Protein (His Tag)

Catalog Number: 63002-Z08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

EFNB2A, efnb2

Protein Construction:

A DNA sequence encoding the zebrafish EFNB2A (O73874) (Met 1-Ala222) was expressed with a polyhistidine tag at the C-terminus.

Source: Danio rerio (zebrafish)

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio-Activity

Measured by its binding ability in a functional ELISA.

Immobilized zebrafish EFNB2A-His at 10 µg/ml (100 µl/well) can bind human EphB4-Fc (Cat:10235-H02H). The EC50 of human EphB4-Fc (Cat:10235-H02H) is 15.5-36.3 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 °C

Predicted N terminal: Leu 25

Molecular Mass:

The recombinant zebrafish EFNB2A consists of 209 amino acids and has a calculated molecular mass of 23.3 kDa. It migrates as an 35-40 KDa band in SDS-PAGE under reducing conditions.

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.

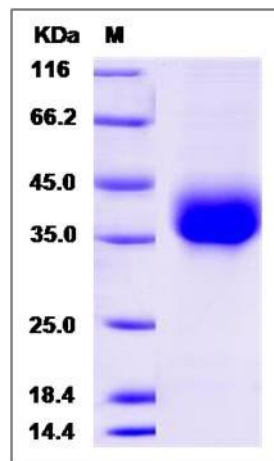
Usage Guide

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 instructions are sent along with the products.

Protein Description

Efnb2a, also known as ephrin B2a, belongs to the ephrin family. Members of this family are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Efnb2a binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Efnb2a, together with ephb4 may play a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration.

References

1. Shaw KM. et al., 2006, Dev Dyn. 235 (7): 1753-60.
2. Kemp HA. et al., 2009, Dev Biol. 327 (2): 313-26.
3. Patten SA. et al., 2012, PLoS One. 7 (2): e31650.

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