

EFNB2A active protein

EFNB2A Protein, Danio rerio (zebrafish), Recombinant (His Tag)

CATALOG #
AAA258249

HOST
HEK293 Cells

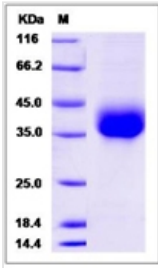
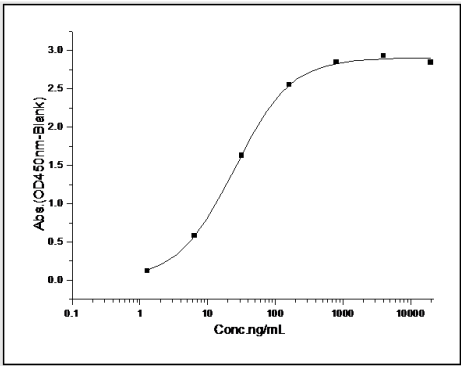
PRODUCT SYNONYMS

EFNB2A; EFNB2A Protein; Danio rerio (zebrafish); Recombinant (His Tag); Danio rerio (zebrafish) EFNB2A/Ephrin B2a Protein (His Tag); efnb2 Protein; id:ibd5072 Protein; EFNB2A active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Ala22 2
Species	Danio rerio (zebrafish)
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Leu 25
Tag	C-His
Protein Construction	A DNA sequence encoding the zebrafish EFNB2A (O73874)(Met 1-Ala222) was expressed with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its binding ability in a functional ELISA. Immobilized zebrafish EFNB2A-His at 10ug/ml (100uL/well) can bind human EphB4-Fc. The EC50 of human EphB4-Fc is 15.5-36.3ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized zebrafish EFN2A-His at 10 ug/ml (100 ul/well) can bind human EphB4-Fc. The EC50 of human EphB4-Fc is 15.5-36.3 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for EFN2A active protein	Background: 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	Shaw KM. et al., 2006, Dev Dyn. 235 (7): 1753-60. Kemp HA. et al., 2009, Dev Biol. 327 (2): 313-26. Patten SA. et al., 2012, PLoS One. 7 (2): e31650.

NCBI AND UNIPROT INFORMATION

NCBI GI #	18858593
NCBI GeneID	30219
NCBI Accession #	NP_571098.1
NCBI GenBank Nucleotide #	NM_131023.1
UniProt Accession #	O73874
Molecular Weight	36,724 Da
NCBI Official Full Name	ephrin-B2a
NCBI Official Synonym Full Names	ephrin B2a
NCBI Official Symbol	efnb2a
NCBI Official Synonym Symbols	efnb2; ephrin-B2a; id:ibd5072
NCBI Protein Information	ephrin-B2a
UniProt Protein Name	Ephrin-B2a
UniProt Gene Name	efnb2a
UniProt Synonym Gene Names	efnb2
UniProt Entry Name	EFNB2_DANRE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/efnb2a/258249>