

Ephrin B3 Active Protein | EFNB3 active protein

Ephrin B3 Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258239

HOST
HEK293 Cells

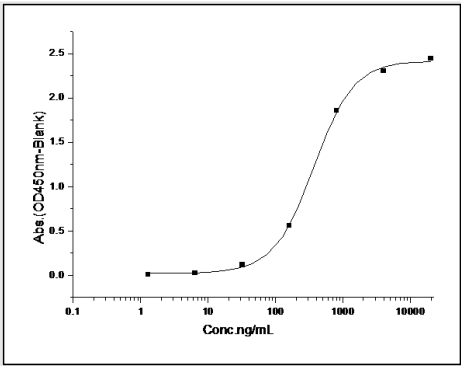
PRODUCT SYNONYMS

Ephrin B3; Ephrin B3 Protein; Mouse; Recombinant (His Tag); Mouse Ephrin B3/EFNB3 Protein (His Tag); EFL-6 Protein; ELF-3 Protein; Elk-L3 Protein; Epl8 Protein; LERK-8 Protein; NLERK-2 Protein; ephrin-B3; EFNB3 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 7
Species	Mouse
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Leu 28
Tag	C-His
Protein Construction	A DNA sequence encoding the mouse Efnb3 (NP_031937.1)(Met1-Ala227) 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	1.Measured by its binding ability in a functional ELISA.2.Immobilized mouse EFNB3-His at 10ug/mL (100uL/well) can bind biotinylated mouse EPHB3-His. The EC50 of biotinylated mouse EPHB3-His 0.02-0.4ug/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 mouse EFNB3-His at 10 ug/mL (100 uL/well) can bind biotinylated mouse EPHB3-His, the EC50 of biotinylated mouse EPHB3-His 0.02-0.4 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for EFNB3 active protein	Background: 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	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.Brckner K, et al. (1999) EphrinB ligands recruit GRIP family PDZ adaptor proteins into raft membrane microdomains. Neuron. 22(3):511-24.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.

NCBI AND UNIPROT INFORMATION

Molecular Weight	The recombinant mouse Efnb3 consists 211 amino acids and predicts a molecular mass of 23.5kDa.
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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-efnb3-active-protein/ephrin-b3/258239>