

Ephrin A2/EFNA2 Active Protein | EFNA2 active protein

Ephrin A2/EFNA2 Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258172

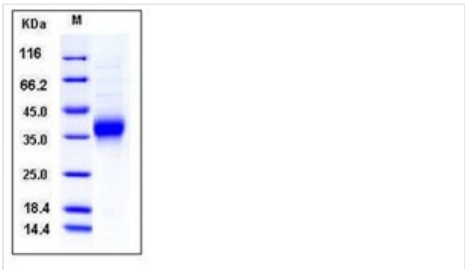
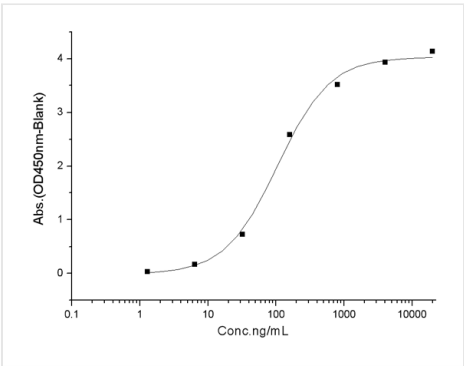
HOST
HEK293 Cells

PRODUCT SYNONYMS

Ephrin A2/EFNA2; Ephrin A2/EFNA2 Protein; Mouse; Recombinant (His Tag); Mouse Ephrin-A2/EFNA2 Protein (His Tag); CEK7L Protein; Elf1 Protein; Epl6 Protein; Eplg6 Protein; Lerk6 Protein; ephrin-A2; EFNA2 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>94% 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-Asn18 4
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu 23
Tag	C-His
Protein Construction	A DNA sequence encoding the mouse EFNA2 (NP_031935.3) without the pro peptide (Met 1-Asn 184) 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	Immobilized Mouse Ephrin A2/EFNA2 His at 2ug/ml (100uL/well) can bind Mouse EphA4 hFc. The EC50 of Mouse EphA4 hFc is 60-200ng/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.



SDS-PAGE

Application Data
Immobilized Mouse Ephrin A2/EFNA2 His at 2 ug/ml (100 ul/well) can bind Mouse EphA4 hFc, the EC50 of Mouse EphA4 hFc is 60-200 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for EFNA2 active protein	Background: Ephrin-A2 also known as EFNA2 or EPH-related receptor tyrosine kinase ligand 6, is a member of the ephrin family. The Eph family receptor interacting proteins (ephrins) are a family of proteins that serve as the ligands of the Eph receptor, which compose the largest known subfamily of receptor protein-tyrosine kinases (RTKs). Ephrin-A2 and their Eph family of receptor tyrosine kinases are expressed by cells of the SVZ. Eph/ephrin interactions are implicated in axon guidance, neural crest cell migration, establishment of segmental boundaries, and formation of angiogenic capillary plexi. Ephrin subclasses are further distinguished by their mode of attachment to the plasma membrane: ephrin-A ligands bind EphA receptors and are anchored to the plasma membrane via a glycosylphosphatidylinositol (GPI) linkage, whereas ephrin-B ligands bind EphB receptors and are anchored via a transmembrane domain. Ephrin-A2 regulates the position-specific affinity of limb mesenchyme and is involved in cartilage pattern formation in the limb.
References	Feldheim DA, et al. (2000) Genetic analysis of ephrin-A2 and ephrin-A5 shows their requirement in multiple aspects of retinocollicular mapping. Neuron. 25(3): 563-74. Jurney WM, et al. (2002) Rac1-mediated endocytosis during ephrin-A2- and semaphorin 3A-induced growth cone collapse. J Neurosci. 22(14): 6019-28. Holmberg J, et al. (2005) Ephrin-A2 reverse signaling negatively regulates neural progenitor proliferation and neurogenesis. Genes Dev. 19(4): 462-71.

NCBI AND UNIPROT INFORMATION

Molecular Weight	The recombinant mouse EFNA2 consists of 173 amino acids and has a predicted molecular mass of 20kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rmEFNA2 is approximately 35-40kDa due to glycosylation.
------------------	--

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/ephrin-a2-efna2/258172>