

Ephrin A3 Active Protein | EFNA3 active protein

Ephrin A3 Protein, Human, Recombinant (hFc Tag)

CATALOG #
AAA257840

HOST
HEK293 Cells

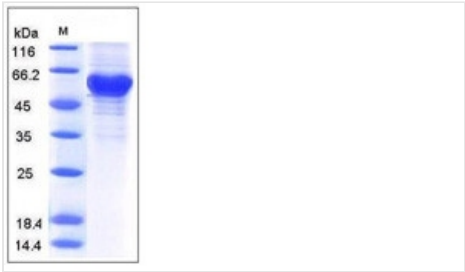
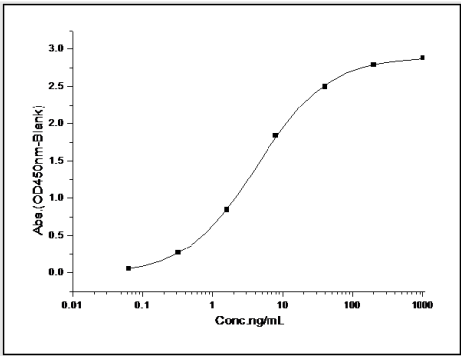
PRODUCT SYNONYMS

Ephrin A3; Ephrin A3 Protein; Human; Recombinant (hFc Tag); Human Ephrin-A3/EFNA3/EFL2 Protein (Fc Tag); EFL2 Protein; Ehk1-L Protein; EPLG3 Protein; LERK3 Protein; ephrin-A3; EFNA3 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-Ser21 3
Species	Human
Activity	Measured by its binding ability in a functional ELISA. Immobilized mouse EphA6 at 1ug/ml (100uL/well) can bind human EphrinA3/Fc Chimera. The EC50 of human EphrinA3 is 299.2ng/mL.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Gln 23
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the human EphrinA3 (NP_004943.1)(Met 1-Ser 213) with the C-terminal propeptide removed was fused with the Fc region of human IgG1 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.
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 EphA6 at 1 ug/ml (100 ul/well) can bind human EphrinA3 / Fc Chimera. The EC50 of human EphrinA3 is 299.2 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for EFNA3 active protein	Background: Ephrin-A3 also known as EPH-related receptor tyrosine kinase ligand 3 or EFNA3, 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-A3 and their Eph family of receptor tyrosine kinases are expressed by cells of the SVZ. Ephrin subclasses are further distinguished by their mode of attachment to the plasma membrane: Ephrin-A3 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-A3 expressed on astrocytes activates EphA4 on the post-synaptic neuron and restricts the growth of dendritic spines through multiple pathways.
References	Klein R. (2009) Bidirectional modulation of synaptic functions by Eph/ephrin signaling. Nat Neurosci. 12(1): 15-20.Lai KO, et al. (2009) Synapse development and plasticity: roles of ephrin/Eph receptor signaling. Curr Opin Neurobiol. 19(3): 275-83.Prevost N, et al. (2002) Interactions between Eph kinases and ephrins provide a mechanism to support platelet aggregation once cell-to-cell contact has occurred. Proc Natl Acad Sci U S A. 99(14): 9219-24.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826708
NCBI GeneID	1944
NCBI Accession #	NP_004943.1
NCBI GenBank Nucleotide #	NM_004952.4
UniProt Accession #	P52797; Q0VGC9; Q5SR70; D3DV85
Molecular Weight	26,350 Da
NCBI Official Full Name	ephrin-A3
NCBI Official Synonym Full Names	ephrin-A3
NCBI Official Symbol	EFNA3
NCBI Official Synonym Symbols	EFL2; EPLG3; LERK3; Ehk1-L
NCBI Protein Information	ephrin-A3; EFL-2; LERK-3; EHK1 ligand; ligand of eph-related kinase 3; eph-related receptor tyrosine kinase ligand 3
UniProt Protein Name	Ephrin-A3
UniProt Gene Name	EFNA3

UniProt Synonym Gene Names	EFL2; EPLG3; LERK3; EHK1-L; LERK-3
UniProt Entry Name	EFNA3_HUMAN

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://www.aaabiotech.com/hek293-efna3-active-protein/ephrin-a3/257840>