

Ephrin A4 Active Protein | EFNA4 active protein

Ephrin A4 Protein, Mouse, Recombinant (hFc Tag)

CATALOG #
AAA258180

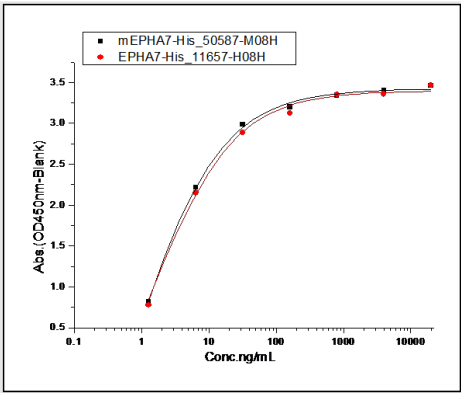
HOST
HEK293 Cells

PRODUCT SYNONYMS

Ephrin A4; Ephrin A4 Protein; Mouse; Recombinant (hFc Tag); Mouse Ephrin-A4/EFNA4 Protein (Fc Tag); EFL-4 Protein; Epl4 Protein; LERK-4 Protein; ephrin-A4; EFNA4 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>92% 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-Gly17 6
Species	Mouse
Activity	Measured by its binding ability in a functional ELISA. 1. Immobilized human EphA7 at 2ug/ml (100uL/well) can bind mouse EphrinA4 Fc Chimera with a linear range of 0.08-10ng/mL. 2. Immobilized mouse EphA7 at 2ug/ml (100uL/well) can bind mouse EphrinA4 Fc Chimera with a linear range of 0.08-10ng/mL.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Leu 26
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the mouse EFNA4 (NP_031936.2) without the pro peptide (Met 1-Gly 176) 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.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. 1. Immobilized human EphA7 at 2 ug/ml (100 ul/well) can bind mouse EphrinA4 Fc Chimera with a linear range of 0.08-10 ng/ml. 2. Immobilized mouse EphA7 at 2 ug/ml (100 ul/well) can bind mouse EphrinA4 Fc Chimera with a linear range of 0.08-10 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for EFNA4 active protein	Background: EPH-related receptor tyrosine kinase ligand 4 (Ephrin-A4) also known as EFNA4, 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). 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. An exception is the EphA4 receptor, which binds both subclasses of ephrins. Ephrin-A4/EFNA4 functions as a cell surface GPI-bound ligand for Eph receptor, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development.
References	Aasheim HC, et al. (2000) A splice variant of human ephrin-A4 encodes a soluble molecule that is secreted by activated human B lymphocytes. Blood. 95(1): 221-30.Moss A, et al. (2005) Ephrin-A4 inhibits sensory neurite outgrowth and is regulated by neonatal skin wounding. Eur J Neurosci. 22(10): 2413-21.Cerretti DP, et al. (1998) Characterization of the genes for mouse LERK-3/Ephrin-A3 (Epl3), mouse LERK-4/Ephrin-A4 (Epl4), and human LERK-6/Ephrin-A2 (EPLG6): conservation of intron/exon structure. Genomics. 47(1): 131-5.

NCBI AND UNIPROT INFORMATION

Molecular Weight	The recombinant mouse EFNA4/Fc is a disulfide-linked homodimer. The reduced monomer consists of 392 amino acids and has a predicted molecular mass of 43.9kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rmEFNA4/Fc monomer is appr
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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.