

Ephrin A5 Active Protein | EFNA5 active protein

Ephrin A5 Protein, Canine, Recombinant (hFc Tag)

CATALOG #
AAA258254

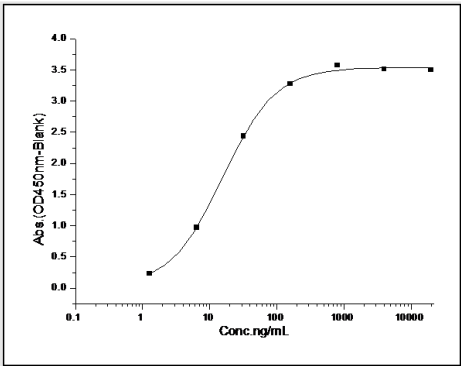
HOST
HEK293 Cells

PRODUCT SYNONYMS

Ephrin A5; Ephrin A5 Protein; Canine; Recombinant (hFc Tag); Canine Ephrin-A5/EFNA5 Protein (Fc Tag); ephrin-A5; EFNA5 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-Asn203
Species	Canine
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Gln 21
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the canine EFNA5 (XP_850582.2)(Met1-Asn203) was expressed 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.
Activity	Immobilized human EPHA3-His at 10ug/ml (100uL/well) can bind canine EFNA5-Fc. The EC50 of canine EFNA5-Fc is 11.5-26.7ng/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 human EPHA3-His at 10 ug/ml (100 ul/well) can bind canine EFNA5-Fc, The EC50 of canine EFNA5-Fc is 11.5-26.7 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for EFNA5 active protein	Background: Ephrin-A5 also known as EFNA5, 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 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-A5/EFNA5 may function actively to stimulate axon fasciculation. The interaction of EFNA5 with EPHA5 also mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion. Ephrin-A5/EFNA5 also serves as a cognate/functional ligand for EPHA7, their interaction regulates brain development modulating cell-cell adhesion and repulsion.
References	Frisa©n J, et al. (1998) Ephrin-A5 (AL-1/RAGS) is essential for proper retinal axon guidance and topographic mapping in the mammalian visual system. Neuron. 20(2): 235-43.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.Wahl S, et al. (2000) Ephrin-A5 induces collapse of growth cones by activating Rho and Rho kinase. J Cell Biol. 149(2): 263-70.

NCBI AND UNIPROT INFORMATION

Molecular Weight	The recombinant canine EFNA5/Fc is a disulfide-linked homodimer. The reduced monomer comprises 424 amino acids and has a predicted molecular mass of 48.2kDa. The apparent molecular mass of the protein is approximately 55-60kDa in SDS-PAGE under reducing c
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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.