

PDGFRA active protein

PDGFRA Protein, Mouse, Recombinant (ECD, His Tag)

CATALOG #
AAA258242

HOST
HEK293 Cells

PRODUCT SYNONYMS

PDGFRA; PDGFRA Protein; Mouse; Recombinant (ECD; His Tag); Mouse PDGFRA Protein (ECD; AI115593 Protein; CD140a Protein; Pdgfr-2 Protein; platelet-derived growth factor receptor; alpha polypeptide; PDGFRA active protein

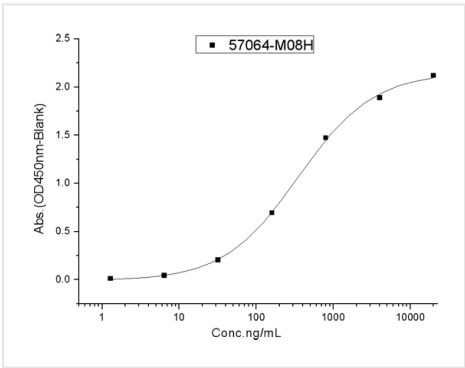
PRODUCT SPECIFICATIONS

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-Ala52 8
Species	Mouse
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Leu 25
Tag	C-His
Protein Construction	A DNA sequence encoding the Mouse PDGFRA (NP_001334647.1)(Met1-Ala528) 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	Measured by its binding ability in a functional ELISA. Immobilized Mouse PDGFRA His at 2ug/ml (100uL/well) can bind Cynomolgus PDGF-B mFc. The EC50 of Cynomolgus PDGF-B mFc is 150-700ng/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



Application Data



SDS-PAGE
Measured by its binding ability in a functional ELISA. Immobilized Mouse PDGFRA His at 2 ug/ml (100 ul/well) can bind Cynomolgus PDGF-B mFc, the EC50 of Cynomolgus PDGF-B mFc is 150-700 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for PDGFRA active protein	Background: PDGFRA, also known as CD140a, together with the structurally homolog protein PDGFRB (CD140b), are cell surface receptors for members of the platelet-derived growth factor family. They are members of the class III subfamily of receptor tyrosine kinase (RTKs) with the similar structure characteristics of five immunoglobulin-like domains in their extracellular region and a split kinase domain in their intracellular region. PDGFRA is expressed in oligodendrocyte progenitor cells and mesothelial cell, and binds all three ligand isoforms PDGF-AA, PDGF-BB and PDGF-AB with high affinity, whereas PDGFRB dose not bind PDGF-AA. PDGFRA plays an essential role in regulating proliferation, chemotaxis and migration of mesangial cells. Recent studies have indicated that PDGFRA acts as a critical mediator of signaling in testis organogenesis and Leydig cell differentiation, and in addition, particularly important for kidney development. Additionally, PDGFRA is involved in tumor angiogenesis and maintenance of the tumor microenvironment and has been implicated in development and metastasis of Hepatocellular carcinoma (HCC). PDGFRA may represent a potential therapeutic target in thymic tumours. PDGFRA gene amplification rather than gene mutation may be the underlying genetic mechanism driving PDGFRA overexpression in a portion of gliomas.
Product Categories/Family for PDGFRA active protein	Cancer Drug Targets Receptor Tyrosine Kinases (RTKs)
References	Oseini AM, et al. (2009) PDGFRalpha: a new therapeutic target in the treatment of hepatocellular carcinoma Expert Opin Ther Targets. 13(4): 443-54. Meister M, et al. (2009) Expression and mutational status of PDGFR in thymic tumours. Anticancer Res. 29(10): 4057-61. Martinho O, et al. (2009) Expression, mutation and copy number analysis of platelet-derived growth factor receptor A (PDGFRA) and its ligand PDGFA in gliomas. Br J Cancer. 101(6): 973-82.

NCBI AND UNIPROT INFORMATION

Molecular Weight	The recombinant mouse PDGFRA consists of 515 amino acids and predicts a molecular mass of 57.87kDa.
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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://www.aaabiotech.com/hek293-active-protein/pdgfra/258242>