Datasheet for ABIN6700396

PDGFA Protein

2 Images

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Overview

Quantity:	10 µg
Target:	PDGFA
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Mouse Platelet Derived Growth Factor AA Recombinant Protein
Purification:	platelet Derived Growth Factor AA purity was determined to be greater than 97% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent proliferation of Balb/c 3T3 cells and is typically 8-10 ng/mL.

Target Details

Target:	PDGFA
Alternative Name:	Pdgfa (PDGFA Products)
Background:	Synonyms: PDGF-1, Platelet-derived growth factor A chain, Platelet-derived growth factor alpha polypeptide

Target Details

	Background: Platelet-Derived Growth Factor (PDGF) is a mitogenic peptide growth hormone carried in the alpha-granules of platelets and is released when platelets adhere to traumatized tissues. Connective tissue cells near the traumatized region respond by initiating the process of replication. The synthesis of PDGF can be induced by IL-1, IL-6, TNF-α, TGF-β and EGF. Recombinant mouse PDGF-AA is a non-glycosylated, disulfide-linked homodimer, containing two 126 amino acid chains, with a total molecular weight of 28.9 kDa.
UniProt:	P20033
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Smooth Muscle Cell Migration, Platelet-derived growth Factor Receptor Signaling

Application Details

Application Notes:	Other: User Optimized Application_Note: Platelet Derived Growth Factor-AA Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Platelet Derived Growth Factor-AA in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

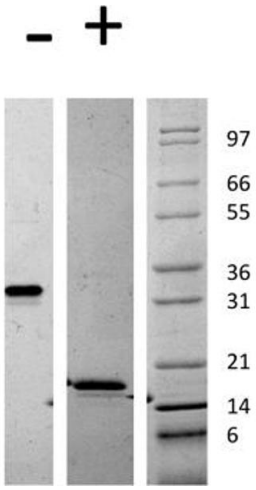
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 10 µL (10-100 µL)
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each

Handling

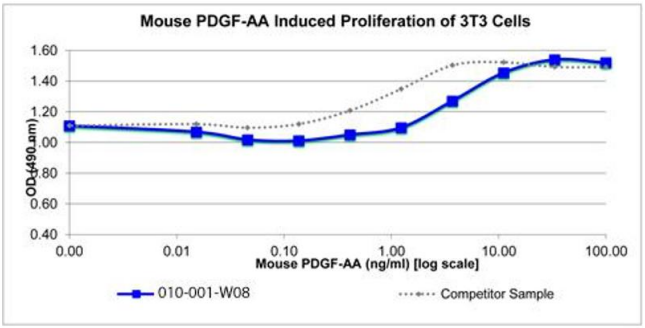
	opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Mouse Platelet Derived Growth Factor AA Recombinant Protein SDS-PAGE of Mouse Platelet Derived Growth Factor-AA Recombinant Protein. Lane 1: 1 µg Mouse PDGF-AA in non-reducing conditions . Lane 2: 1 µg Mouse PDGF-AA in reducing conditions (+). Lane 3: Molecular weight marker. Mouse PDGF AA is a homodimer having a predicted MW totaling 28.9 kDa..



SDS-PAGE

Image 2. SDS-PAGE of Mouse Platelet Derived Growth Factor AA Recombinant Protein Bioactivity of Mouse Platelet Derived Growth Factor AA Recombinant Protein. Serial dilutions of Mouse PDGF-AA, starting at 100 ng/mL, were added to NIH 3T3 cells. After 40 hours, cell viability was measured and the linear portion of the curve was us used to calculate the ED50. The ED50 of Mouse PDGF-AA is 3.4-5 ng/mL. This value is comparable to the typical expected range of 3-5 ng/mL.