Datasheet for ABIN6700389

PDGF Protein

2 Images

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Overview

Quantity:	100 µg
Target:	PDGF
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Platelet Derived Growth Factor-AB Recombinant Protein
Purification:	platelet Derived Growth Factor-AB purity was determined to be greater than 95% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent proliferation of mouse 3T3 indicator cells and is typically less than 1 ng/mL.

Target Details

Target:	PDGF
Alternative Name:	PDGFA/PDGFB
Background:	Synonyms: PDGF-1, Platelet-derived growth factor A chain, Platelet-derived growth factor alpha polypeptide, PDGF-2, Platelet-derived growth factor B chain, Platelet-derived growth factor beta

Target Details

	polypeptide, proto-oncogene c-Sis 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 human PDGF-AB is a non-glycosylated, disulfide-linked heterodimer, containing one 14.3 kDa alpha-chain and one 12.1 kDa beta-chain, with total molecular weight of 26.4 kDa.
UniProt:	P04085

Application Details

Application Notes:	Other: User Optimized Application_Note: Platelet Derived Growth Factor-AB 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-AB in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

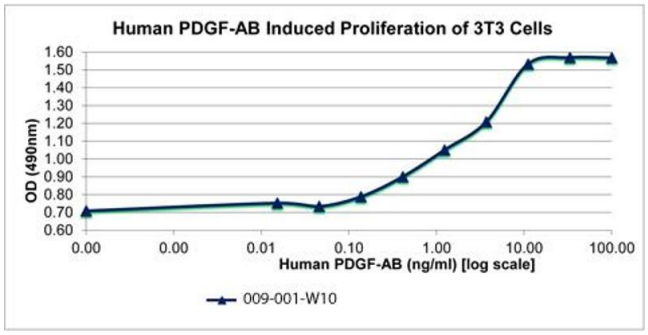
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 100 µL
Concentration:	0.1 mg/mL
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 opening to dislodge contents from the cap and to clarify if contents are not clear after standing

Handling

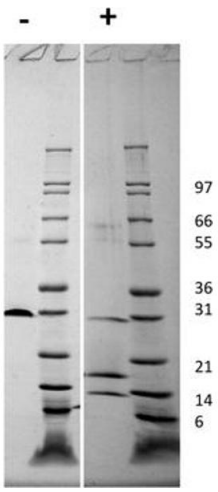
	at room temperature.
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Human Platelet Derived Growth Factor-AB Recombinant Protein Bioactivity of Human Platelet Derived Growth Factor-AB Recombinant Protein. Serial dilutions of Human PDGF-AB, starting at 100 ng/mL, were added to 3T3 cells. Cell proliferation was measured after 46 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of Human PDGF-AB is 1.4-2.1 ng/mL. This value is comparable with the typical expected range of < 1 ng/mL.



SDS-PAGE

Image 2. SDS-PAGE of Human Platelet Derived Growth Factor-AB Recombinant Protein SDS-PAGE of Human Platelet Derived Growth Factor-AB Recombinant Protein. Lane 1: 1 µg Human PDGF-AB in non-reducing conditions . Lane 2: Molecular weight marker. Lane 3: 1 µg Human PDGF-AB in reducing conditions (+). Lane 4: Molecular weight marker. Human PDGF-AB is predicted to be a disulfide linked heterodimer with a predicted MW of 25.5 kDa.