

Datasheet for ABIN6700400

PDGFB Protein**2** Images[Go to Product page](#)

Overview

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

Product Details

Purpose:	Human Platelet Derived Growth Factor-BB Recombinant Protein
Purification:	platelet Derived Growth Factor-BB 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 3T3 indicator cells and is typically 1-3 ng/mL.

Target Details

Target:	PDGFB
Alternative Name:	PDGFB (PDGFB Products)
Background:	Synonyms: PDGF-2, Platelet-derived growth factor B chain, Platelet-derived growth factor beta polypeptide, Proto-oncogene c-Sis

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 human PDGF-BB is a non-glycosylated, disulfide-linked homodimer, containing two 109 amino acid chains, with a total molecular weight of 24.3 kDa.

UniProt:	P01127
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Regulation of Carbohydrate Metabolic Process , Smooth Muscle Cell Migration , Platelet-derived growth Factor Receptor Signaling

Application Details

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

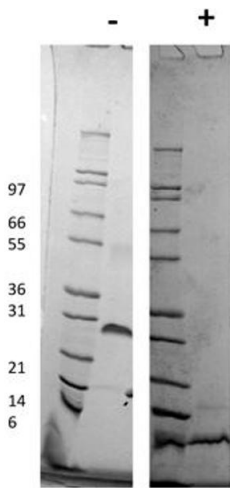
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 10 μ L (10-100 μ L)
Buffer:	Buffer: 0.01 M Sodium Phosphate, pH 7.5 Stabilizer: None
Preservative:	Without preservative
Storage:	4 $^{\circ}$ C, -20 $^{\circ}$ C
Storage Comment:	Store vial at 4 $^{\circ}$ 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 $^{\circ}$ 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 at room temperature.

Expiry Date: 6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Human Platelet Derived Growth Factor-BB Recombinant Protein SDS-PAGE of Human Platelet Derived Growth Factor-BB Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Human PDGF-BB in non-reducing conditions . Lane 3: Molecular weight marker. Lane 4: 1 µg Human PDGF-BB in reducing conditions (+). Human PDGF-BB is predicted to be a disulfide linked homodimer with a predicted MW of 24.3 kDa.

SDS-PAGE

Image 2. SDS-PAGE of Human Platelet Derived Growth Factor-BB Recombinant Protein Bioactivity of Human Platelet Derived Growth Factor-BB Recombinant Protein. Serial dilutions of Human PDGF-BB, 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 used to calculate the ED50. The ED50 of Human PDGF-BB is 1.5-2.2 ng/mL. This value is comparable with the typical expected range of 1-3 ng/mL.

