

Datasheet for ABIN6700409

PDGFB Protein[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	PDGFB
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Mouse Platelet Derived Growth Factor BB Recombinant Protein
Purification:	platelet Derived Growth Factor BB purity was determined to be greater than 98% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is measured by the dose-dependent proliferation in mouse 3T3 fibroblasts and is typically 1-2 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 Background: Platelet-Derived Growth Factor (PDGF) is a mitogenic peptide growth hormone

Target Details

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-BB is a non-glycosylated, disulfide-linked homodimer, containing two 109 amino acids chains, with a total molecular weight of 24.6 kDa.

UniProt: [P31240](#)

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 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: 100 μ L

Buffer: Buffer: 0.01 M Sodium Citrate, pH 3.0
Stabilizer: None

Preservative: Without preservative

Storage: 4 °C, -20 °C

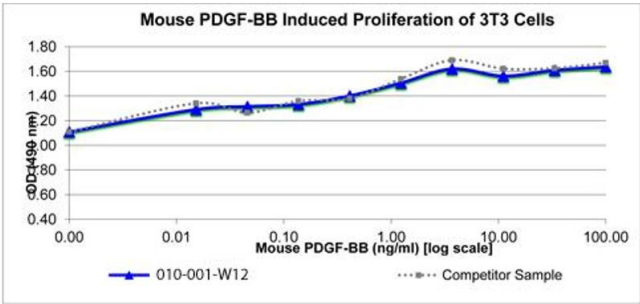
Storage Comment: Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze 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 Mouse Platelet Derived Growth Factor BB Recombinant Protein Bioactivity of Mouse Platelet Derived Growth Factor BB Recombinant Protein. Serial dilutions of Mouse PDGF-BB, 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 used to calculate the ED50. The ED50 of Mouse PDGF-BB is 0.2-0.3 ng/mL. This value is comparable to the typical expected range of 1-3 ng/mL.