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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet for 009-001-W10-0010

rHuman PDGF-AB Protein**Overview**

Description:	Human Platelet Derived Growth Factor-AB Recombinant Protein - 009-001-W10-0010
Item No.:	009-001-W10-0010
Size:	10 µg
Applications:	SDS-PAGE, Cellular Assay
Origin:	Human
Expressed in:	E. coli

Product 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-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.
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 polypeptide, proto-oncogene c-Sis
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	PDGFA/PDGFB
Purity/Specificity:	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.
Relevant Links:	<ul style="list-style-type: none">• UniProtKB - P04085

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Cellular Assay (Based on references)
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein. Biologic Activity: The activity is determined by the dose-dependent proliferation of mouse 3T3 indicator cells and is typically less than 1 ng/mL.

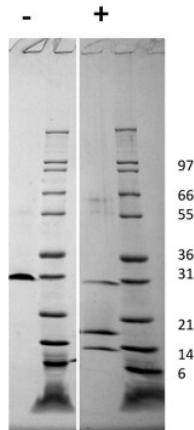
Formulation

Physical State:	Lyophilized
Concentration:	0.1 mg/ml
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	10 μ l (10-100 μ l)
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at -20° 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 at room temperature.
Expiration:	Expiration date is six (6) months from date of receipt.

Images

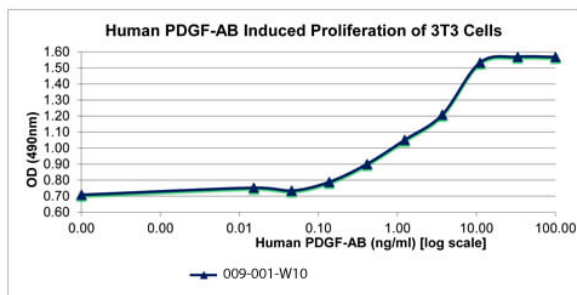


SDS-PAGE

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.

SDS-PAGE

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 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.



Disclaimer

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