Active Recombinant Human PDGFB Protein (Ser82-Thr190), GMP Grade, Animal-Free

Cat. No. PDGFB-16HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP recombinant human PDGF-BB protein (Ser82-Thr190) without tag was expressed in E. coli, produced using non-animal reagents in an Animal-Free laboratory and manufactured and tested under cGMP guidelines.
Species	Human
Source	E.coli
ProteinLength	Ser82-Thr190
Description	This gene encodes a member of the protein family comprised of both platelet-derived growth factors (PDGF) and vascular endothelial growth factors (VEGF). The encoded preproprotein is proteolytically processed to generate platelet-derived growth factor subunit B, which can homodimerize, or alternatively, heterodimerize with the related platelet-derived growth factor subunit A. These proteins bind and activate PDGF receptor tyrosine kinases, which play a role in a wide range of developmental processes. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 17, at sites where this gene and that for collagen type 1, alpha 1 are located, are associated with dermatofibrosarcoma protuberans, a rare skin tumor. Alternative splicing results in multiple transcript variants.
Form	Disulfide-linked homodimer

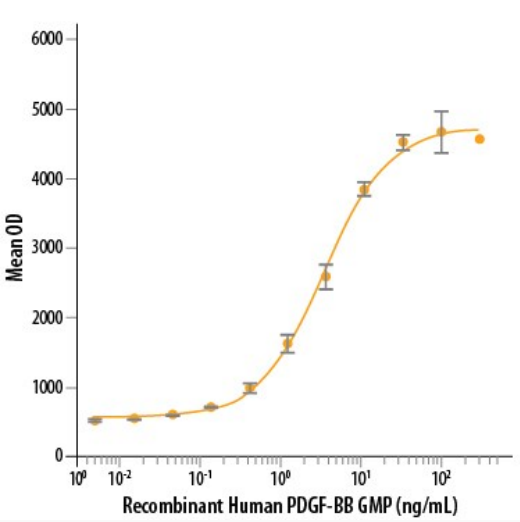
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45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	Measured in a cell proliferation assay using NR6R-3T3 mouse fibroblast cells. The ED50 for this effect is 1.5-6 ng/mL. The specific activity of recombinant human PDGF-BB is >7.5 x 105 IU/mg, which is calibrated against the human PDGF-BB WHO International Standard.
Molecular Mass	Predicted Molecular Mass: 12.3 kDa (monomer)
N-terminal Sequence Analysis	Ser-Leu-Gly-Ser-Leu-Thr-Ile-Ala-Glu-Pro
Endotoxin	<0.01 EU/ μg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE with silver staining, under reducing conditions.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. A minimum of 12 months when stored at ≤ -20 centigrade as supplied. Refer to lot specific COA for the Use by Date. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in Acetonitrile and TFA.
Reconstitution	Reconstitute at 100 μg/mL in 4 mM HCl.
Shipping	The product is shipped with polar packs.

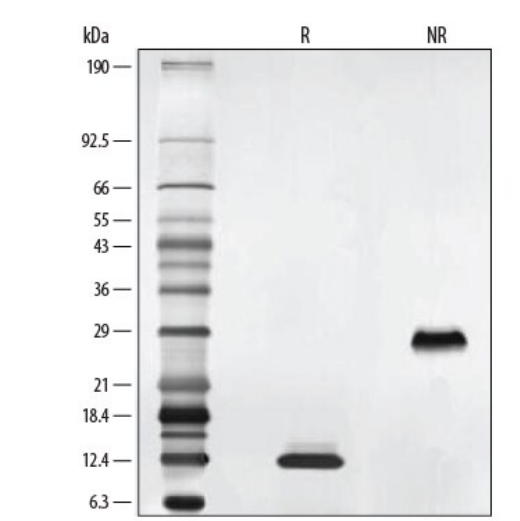
GENE INFORMATION

Gene Name	PDGFB platelet-derived growth factor beta polypeptide [Homo sapiens]
Official Symbol	PDGFB

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Synonyms	PDGFB; platelet-derived growth factor beta polypeptide; platelet derived growth factor beta polypeptide (simian sarcoma viral (v sis) oncogene homolog) , SIS; platelet-derived growth factor subunit B; becaplermin; oncogene SIS; SSV; PDGF-2; PDGF, B chain; PDGF subunit B; proto-oncogene c-Sis; platelet-derived growth factor 2; platelet-derived growth factor B chain; platelet-derived growth factor, B chain; Platelet-derived growth factor, beta polypeptide (oncogene SIS); platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog); SIS; PDGF2; c-sis; FLJ12858;
Gene ID	5155
mRNA Refseq	NM_002608
Protein Refseq	NP_002599
MIM	190040
UniProt ID	P01127
Bioactivity	

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SDS-PAGE	

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