

Platelet Derived Growth Factor-BB Active Protein | mPDGF BB active protein

Recombinant Mouse Platelet Derived Growth Factor-BB

CATALOG #
AAA38195

HOST
E Coli

PRODUCT SYNONYMS

Platelet Derived Growth Factor-BB; Recombinant Mouse Platelet Derived Growth Factor-BB; PDGF BB Mouse; Platelet-Derived Growth Factor BB Mouse Recombinant; Glioma-derived growth factor; GDGF; Osteosarcoma-derived Growth Factor; ODGF; SIS; SSV; PDGF2; c-sis; FLJ12858; PDGF-BB; PDGF B-chain; Platelet-derived growth factor beta polypeptide; Becaplermin; mPDGF BB active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The protein was lyophilized from 10mM NaCitrate pH-3.0. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MSLGSLAAAE PAVIAECKTR TEVFQISRNL IDRTNANFLV WPPCVEVQRC SGCCNNRNQV CRASQVQMRP VQVRKIEIVR KKPIFKKATV TLEDHLACKC ETIVTPRPVT
Sequence Length	241
Solubility	It is recommended to reconstitute the lyophilized Platelet-derived Growth Factor-BB in sterile 100mM acetic acid and 0.1% BSA not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Protein Content	Protein quantitation was carried out by two independent methods:1. UV spectroscopy at 280 nm using the absorbency value of 0.48 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of PDGF-BB as a Reference Standard.
Biological Activity	The biological activity is determined by the dose-dependant stimulation of the proliferation of human umbelical vein endothelial cells (HUVEC) using a concentration range of less than 1.6ng/ml.
Preparation and Storage	Lyophilized Platelet-derived Growth Factor BB although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution PDGF BB should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for mPDGF BB active protein	Description: Platelet-Derived Growth Factor BB Mouse Recombinant produced in E Coli, is a homodimeric, non-glycosylated, polypeptide chain containing 2x109 (total of 2 chains 218aa) amino acids and having a total molecular weight of 24.6 kDa.PDGF-BB is purified by proprietary chromatographic techniques. Introduction: PDGF-BB is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a motif of eight cysteines. This gene product can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 7, at sites where this gene and that for COL1A1 are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans resulting from unregulated expression of growth factor. Two splice variants have been identified for this gene.
Product Categories/Family for mPDGF BB active protein	Cytokines and Growth Factors; Growth Factors; PDGF

NCBI AND UNIPROT INFORMATION

NCBI GI #	40538817
NCBI GeneID	18591
NCBI Accession #	NP_035187.2
NCBI GenBank Nucleotide #	NM_011057.3
UniProt Accession #	P31240; Q6P3C4
Molecular Weight	27,382 Da
NCBI Official Full Name	platelet-derived growth factor subunit B
NCBI Official Synonym Full Names	platelet derived growth factor, B polypeptide
NCBI Official Symbol	Pdgfb
NCBI Official Synonym Symbols	Sis; PDGF-B
NCBI Protein Information	platelet-derived growth factor subunit B; PDGF subunit B; PDGF-2; c-sis; platelet-derived growth factor B chain; platelet-derived growth factor beta polypeptide; proto-oncogene c-Sis
UniProt Protein Name	Platelet-derived growth factor subunit B
UniProt Gene Name	Pdgfb
UniProt Synonym Gene Names	Sis; PDGF subunit B
UniProt Entry Name	PDGFB_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-mpdgf-bb-active-protein/platelet-derived-growth-factor-bb/38195>