

32-1659: PDGF BB Recombinant Protein

Uniprot ID : P01127

Alternative Name : 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.

Description

Source : Escherichia Coli. Platelet-Derived Growth Factor BB Human Recombinant is a homodimeric, non-glycosylated, polypeptide chain containing 2x10⁹ amino acids (218 amino acids in total) and having a molecular mass of 24.3 kDa. PDGF-BB is purified by proprietary chromatographic techniques. 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 Info

Amount : 10 µg

Purification : Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Content : Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH7.4.

Storage condition : Lyophilized Platelet-derived Growth Factor BB although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PDGF BB should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.

Amino Acid : SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLVW PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV QVRKIEIVRK KPIFKKATVT LEDHLACKCE TVAAARPVT.

Application Note

It is recommended to reconstitute the lyophilized Platelet-derived Growth Factor-BB in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells. The expected ED50 for this effect is 1.0-3.0 ng/ml.

