

Datasheet

Platelet-Derived Growth Factor BB

Human Recombinant

Product	Description	Catalogue-No.	Size
PDGF-BB	Platelet-derived growth factor BB human recombinant	CB-1109200 CB-1109201	2 µg 10 µg

Product description

Synonyms: Glioma-derived growth factor, Osteosarcoma-derived growth factor, PDGF-2

Platelet-derived Growth Factor BB (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. Two splice variants have been identified for this gene. PDGF-BB human recombinant is a homo-dimeric, non-glycosylated, polypeptide chain containing 2 x 10⁹ amino acids (218 amino acids total) and having a molecular mass of 24.3 kDa. PDGF-BB is purified by proprietary chromatographic techniques.

Solubility and storage conditions

It is recommended to reconstitute the lyophilized PDGF-BB in sterile, distilled water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Lyophilized PDGF-BB although stable at room temperature for 3 weeks, should be stored desiccated below -20° C. Upon reconstitution PDGF-BB should be stored at 2-8° C up to 7 days and for future use below -20° C. Please prevent freeze-thaw cycles.

Composition

Sterile filtered white lyophilized (freeze-dried) powder. Lyophilized from a 0.2 µm filtered, concentrated solution in PBS, pH 7.4.

Purity: > 95.0% as determined by: (a) analysis by RP-HPLC. (b) analysis by SDS-PAGE.

Amino acid sequence: SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLVW PPCVEVQRCS GCCNNRNVC RPTQVQLRPV QVRKIEIVRK KPIFKKATVT LEDHLACKCE TVAAARPVT

Biological activity: 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.

Suitability

FOR RESEARCH USE ONLY!

Not approved for human or animal diagnostic or therapeutic procedures.

Technical Support

For technical support or questions or please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.