

Datasheet

Platelet-Derived Growth Factor AB

Human Recombinant

Product	Description	Catalogue-No.	Size
PDGF-AB	Platelet-derived growth factor AB human recombinant	CB-1109301	10 µg

Product description

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

The term 'PDGF' refers to a family of disulphide bond-linked dimeric isoforms that act as autocrine and paracrine growth factors and are produced by a variety of cell types other than platelets. They act as potent mitogens for almost all mesenchyme-derived cells. Aberrant expression is involved in certain cancers, fibro-proliferative disorders and atherosclerosis. The proteins also contribute to wound healing and neural regeneration. There are four members of the PDGF family – PDGF A, PDGF B, PDGF C and PDGF D. Two distinct types of PDGF-A exist – a short form that is soluble and a long form that is retained by the extracellular matrix. PDGF AB human recombinant is a heterodimeric, non-glycosylated, polypeptide chain containing 234 amino acids consisting of 13.3 kDa alpha-chain and 12.2 kDa beta-chain having a total molecular mass of 25.5 kDa. PDGF-AB is purified by proprietary chromatographic techniques.

Solubility and storage conditions

It is recommended to reconstitute the lyophilized PDGF-AB in sterile, distilled water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Lyophilized PDGF-AB although stable at room temperature for 3 weeks, should be stored desiccated below -20° C. Upon reconstitution PDGF-AB 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 10 mM acetic acid.

Purity: > 98.0% as determined by RP-HPLC analysis and by SDS-PAGE.

Amino acid sequence: the sequence of the first five N-terminal amino acids was determined and was found to be Met-Ser-Ile-Glu-Glu-alpha chain and Met-Ser-Leu-Gly-Ser-beta chain.

Biological activity: the ED₅₀, calculated by the dose-dependent proliferation of murine BALB/c 3T3 indicator cells (measured by ³H-thymidine uptake) is < 1 ng/ml, corresponding to a specific activity of 1,000,000 units/mg.

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.