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Platelet Derived Growth Factor-AB, human recombinant (rHuPDGF-AB)

Catalog No: 94949
Lot No: XXXXX
Source: *E. coli*
Synonyms: Glioma-derived growth factor, GDGF, Osteosarcoma-derived Growth Factor, ODGF, PDGF-AB

Background

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 mesenchymally-derived cells. Aberrant expression is involved in certain cancers, fibroproliferative disorders and atherosclerosis. The protein also contributes 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.

Description

Platelet-Derived Growth Factor AB human recombinant produced in *E. coli* is a heterodimeric, non-glycosylated, polypeptide chain containing 234 amino acids consisting of 14.3 kDa alpha-chain and 12.1 beta-chain having a total molecular mass of 26.4 kDa. PDGF-AB is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from 10 mM Acetic Acid.

Solubility

It is recommended to reconstitute the lyophilized PDGF-AB in sterile 18 M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Platelet-derived Growth Factor AB, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PDGF-AB should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

Alpha chain: MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKCQPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHI ECACATTSLN PDYREEDTGR PRESGKKRKR KRLKPT

Beta chain: SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLW PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV QVRKIGIVRK KPIFKKATVT LGDHLACKCE TVAAARPVT



Activity

The ED50, calculated by the dose-dependant proliferation of murine BALB/c 3T3 indicator cells (measured by 3H-thymidine uptake) is <math><1.4 - 2.1 \text{ ng/ml}</math>, corresponding to a specific activity of

Usage

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