
Product Data Sheet

Product Name: PDGF AB Human

Cat. No.: GP20815

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Glioma-derived growth factor; GDGF; Osteosarcoma-derived Growth Factor; ODGF; PDGF-AB.		
Amino Acid Sequence	Alpha chain: MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKQCPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATTSLN PDYREEDTGR PRES GKRRKR KRLKPT. Beta chain: SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLVW PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV QVRKIGIVRK KPIFKKATVT LGDHLACKCE TVAAARPVT.		
Solubility	It is recommended to reconstitute the lyophilized Platelet-derived Growth Factor-AB in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from 10mM AcOH (Acetic Acid).		

Introduction

The term α PDGF β 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 α C PDGF A, PDGF B, PDGF C and PDGF D. Two distinct types of PDGF-A exist α C a short form that is soluble and a long form that is retained by the extracellular matrix.

Biological Activity

The ED₅₀ as determined by the dose-dependent proliferation of mouse 3T3 indicator

Caution: Product has not been fully validated for medical applications. For research use only.

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cells, is 1.4-2.1 ng/ml. This corresponds to a specific activity of 7.1×10^5 units/mg.

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.

Background

Platelet-derived Growth Factor AB Human Recombinant is a heterodimeric, non-glycosylated, polypeptide chain containing 234 amino acids (and an N-terminal Met) consisting of 14.3kDa alpha-chain and 12.1 beta-chain having a total molecular mass of 26.4kDa. PDGF-AB is purified by proprietary chromatographic techniques.

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