

PDGF BB Human

Description: 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.

Synonyms: 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.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

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

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

Formulation:

Lyophilized from a 0.2

Stability:

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Platelet-derived Growth Factor-BB in sterile 18M-cm H2O not less than 100

Introduction:

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.

Biological Activity:

References:

1. Title: Platelet-derived growth factor mediates survival of leukemic large granular lymphocytes via an autocrine regulatory pathway. Publication: Published online before print October 30, 2009, doi: 10.1182/blood-2009-06-223719 Blood January 7, 2010 vol. 115 no. 1 51-60

. Link: <http://bloodjournal.hematologylibrary.org/content/115/1/51.full> 2. Title: Imatinib attenuates skeletal muscle dystrophy in mdx mice. Publication: Published online before print March 16, 2009, doi: 10.1096/fj.09-129833 August 2009 The FASEB Journal vol. 23 no. 8

2539-2548. Link: <http://www.fasebj.org/content/23/8/2539.full> 3. Title: Human Cord Blood-Derived Endothelial Progenitor Cells and Their Conditioned Media Exhibit Therapeutic Equivalence for Diabetic Wound Healing. Publication: Cell Transplantation, Vol. 19, pp. 1635-1644, 2010

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Corp. Link: <http://docserver.ingentaconnect.com/deliver/connect/cog/09636897/v19n12/s11.pdfexpir> es=1370351771&id=74450861&titleid=5476&acname=Guest+User&checksum=14BACCDE2ACF33

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