
Product Data Sheet

Product Name: PDGF BB Human, Yeast
 Cat. No.: GP20818
 Batch No.: 1

Product Data

Purity	>98%	Source	Saccharomyces cerevisiae.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Leu-Gly-Ser-Leu.		
Solubility	It is recommended to reconstitute the lyophilized Platelet-derived Growth Factor-BB in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The PDGF-BB was lyophilized from 0.2 µm filtered solution in 20mM sodium phosphate in absence of any carrier protein.		

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

The ED50, as measured by its ability to stimulate proliferation of mouse 3T3 fibroblasts

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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is typically 1 ng/ml, corresponding to a Specific Activity of 1,000,000IU/mg.

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.

Background

Platelet-Derived Growth Factor BB Human Recombinant is a glycosylated homodimer produced in *Saccharomyces cerevisiae*, containing 2×10^9 amino acids and having a molecular mass of 32kDa. PDGF-BB is purified by proprietary chromatographic techniques.

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