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PDGF BB Human, Yeast

Platelet Derived Growth Factor-BB Human Recombinant, Yeast
GRF0307

Product Overview

Name	PDGF BB Human, Yeast

Description

Platelet Derived Growth Factor-BB Human Recombinant, Yeast

Accession (Primary)	P01127

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.

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.

Source

Saccharomyces cerevisiae.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The PDGF-BB was lyophilized from 0.2 μm filtered solution in 20mM sodium phosphate in absence of any carrier protein.

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.

Purity

Greater than 98.0% as determined by SDS-PAGE.

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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.

Biological Activity

The ED 50 , as measured by its ability to stimulate proliferation of mouse 3T3 fibroblasts is typically 1 ng/ml, corresponding to a Specific Activity of 1,000,000IU/mg.

Solubility

It is recommended to reconstitute the lyophilized Platelet-derived Growth Factor-BB in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

PDGF BB Human, Yeast is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01127)