
Product Data Sheet

Product Name: PDGF-BB Equine
 Cat. No.: GP26065
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	atRoomtemp.
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	MSLGSLAVAE PAMIAECKTR TEVFEISRRL IDRTNANFLV WPPCVEVQRC SGCCNNRHVQ CRPTQVQLRP VQVRKIEIVR KKPTFKKATV TLEDHLACKC ETVGAARPVT		
Solubility	It is recommended to reconstitute the lyophilized PDGF-BB in sterile water at a concentration of 0.1 mg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a sterile (0.2 μ) filtered solution containing 10 mM sodium phosphate, pH 7.5.		

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

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

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The ED50 as determined by 3T3 proliferation is ≤ 30 ng/mL, corresponding to a specific activity of $\geq 3.3 \times 10^4$ units/mg.

Stability

Lyophilized PDGF-BB although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution PDGF-BB Human 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

PDGF-BB Equine Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide dimer chain containing 2 x 110 amino acids and having a total molecular mass of 24.8kDa. The PDGF-BB is purified by proprietary chromatographic techniques.

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