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PDGF-BB Equine

Platelet Derived Growth Factor-BB Equine Recombinant
GRF0312

Product Overview

Name	PDGF-BB Equine
Description	
Platelet Derived Growth Factor-BB Equine Recombinant	
Accession (Primary)	XP_005606703
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	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a sterile (0.2 µ) filtered solution containing 10 mM sodium phosphate, pH 7.5.	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	

MSLGSLAVAE PAMIAECKTR TEVFEISRRL IDRTNANFLV WPPCVEVQRC SGCCNNRHVQ CRPTQVQLRP VQVRKIEIVR KKPTFKKATV TLEDHLACKC ETVGAARPVT

Biological Activity

The ED 50 as determined by 3T3 proliferation is ≤ 30 ng/mL, corresponding to a specific activity of ≥ 3.3 x 10^4 units/mg.

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.

Precautions

PDGF-BB Equine is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (XP_005606703)