

Overview

Synonyms	Glioma-derived growth factor (GDGF), Osteosarcoma-derived Growth Factor (ODGF). Platelet Derived Growth Factor (PDGF) is a potent mitogen for a wide range of cell types including fibroblasts, smooth muscle, connective tissue, bone and cartilage cells, and some blood cells. The PDGF is involved in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development. PDGF which is composed of a dimer of two chains termed the A chain and B chain, can be present as AA or BB homodimers or as an AB heterodimer. Recombinant human Platelet-Derived Growth Factor-BB (rhPDGF-BB) produced in <i>Pichia pastoris</i> is a glycosylated polypeptide. rhPDGF-BB is a 24.3 kDa disulfide-linked homodimer of two B chains (218 total amino acids) and is obtained by proprietary chromatographic techniques.
Description	
Species	Human
Source	<i>P. pastoris</i>
Biological Activity	ED50 <3 ng/ml, measured by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells, corresponding to a specific activity of >3.3 x 10 ⁵ units/mg.
Sequence	SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLVW PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV QVRKIEIVRK KPIFKKATVT LEDHLACKCE TVAAARPVT

Properties

Measured Molecular Weight	24.3kDa, observed by non-reducing SDS-PAGE.
Purity	> 97% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized after extensive dialysis against 10mM acetic acid.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/ml.
Endotoxin Level	<1.0 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human Platelet-Derived Growth Factor-BB (rhPDGF-BB) remains stable up to 12 months at lower than -70°C from date of receipt. Upon reconstitution, rhPDGF-BB should be stable up to 4 weeks at 4°C or up to 6 months at -20°C.

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