



Recombinant Human Platelet-derived Growth Factor-BB
(rhPDGF-BB)
Catalog #105-10

Description

Platelet-derived growth factor (PDGF) presenting in serum but absent from plasma was first discovered in animal study by Lynch and co-workers in the late 1980s. It is a disulfide-linked dimer consisting of two peptides-chain A and chain B. PDGF has three subforms: PDGF-AA, PDGF-BB, PDGF-AB. It is involved in a number of biological processes, including hyperplasia, embryonic neuron development, chemotaxis, and respiratory tubule epithelial cell development. The function of PDGF is mediated by two receptors (PDGFR- α and PDGFR- β).

Specifications

Synonyms:	Platelet-Derived Growth Factor-BB, Glioma-derived growth factor (GDGF), Osteosarcoma-derived Growth Factor (ODGF)
AA Sequence:	(monomer) SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLVW PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV VRKIEIVRK KPIFKKATVT LEDHLACKCE TVAAARPVT
Source:	<i>Pichia pastoris</i>
Molecular Weight:	Approximately 24.3 kDa, a disulfide-linked homodimeric protein containing two 110 amino acids residues polypeptide.
Purity	> 95% by SDS-PAGE
Physical Appearance:	White lyophilized powder.
Endotoxin:	<0.1 ng/ μ g of protein (<1 EU/ μ g)

Formulation

Lyophilized from a 0.2 μ m filtered concentrated (1mg/ml) solution in PBS, pH 7.4.

Reconstitution

Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.

Shipping and Storage

Gel pack. Upon receipt, store at -20°C after receiving. Upon reconstitution, store at 2-8 °C for up to one week. For maximal stability, aliquot and store at -20 °C. Avoid repeated freeze/ thaw cycles.

Usage

rhPDGF-BB is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.