

Platelet-Derived Growth Factor BB Rat Recombinant

Item Number	rAP-2421
Synonyms	Platelet-derived growth factor subunit B, PDGF subunit B, PDGF-2, Platelet-derived growth factor B chain, Platelet-derived growth factor beta polypeptide, Pdgfb, SIS, c-sis.
Description	PDGF-BB Rat Recombinant produced in E.coli is a disulfide-linked homodimeric, non-glycosylated, polypeptide of two B chains containing 2x109 amino acids (218 amino acids in total) and having a molecular mass of 24.4 kDa. The PDGF-BB is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	Q05028
Amino Acid Sequence	SLGSLAAAEP AVIAECKTRT EVFQISRNL DRTNANFLVW PPCVEVQRCS GCCNNRNVQC RASQVQMRPV QVRKIEIVRK KPVFKKATVT LEDHLACKCE TVVTPRPV.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Formulation and Purity	PDGF-BB was lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.0. Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized PDGF-BB in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 2.0 ng/ml, corresponding to a specific activity of > 5.0 × 105 IU/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the end users! This product is sold for **Research Use Only**