

Platelet-Derived Growth Factor AB Human Recombinant

Item Number	rAP-2414
Synonyms	Glioma-derived growth factor, GDGF, Osteosarcoma-derived Growth Factor, ODGF, PDGF-AB.
Description	Platelet-derived Growth Factor AB Human Recombinant is a heterodimeric, non-glycosylated, polypeptide chain containing 234 amino acids (and an N-terminal Met) consisting of 14.3kDa alpha-chain and 12.1 beta-chain having a total molecular mass of 26.4kDa. PDGF-AB is purified by proprietary chromatography.
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Amino Acid Sequence	Alpha chain: MSIEEA VPAV CKTR TVIYEI PRSQ VDPTSA NFLI WPPC VE VKRCTGCCNT SSVKCQPSRV HHR SVK VAKV EYVR KKP KPLK EVQ VR LEEHL ECAC ATTSLN PDY REEDTGR PRES GKKR KR KRL-KPT. Beta chain: SLGS LTIAEP AMIA ECKRT EVFE ISRR LI DRTN AFLVW PPC VEVQRCS GCCNNR NVQC RPTQ VQLRPV QVR KIGIVRK KPI FKKATVT LGDHLACKCE TVAA ARPVT.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Platelet-derived Growth Factor AB although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PDGF-AB 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	Lyophilized from 10mM AcOH (Acetic Acid). Greater than 95.0% as determined by SDS-PAGE analysis.
Application	
Solubility	It is recommended to reconstitute the lyophilized Platelet-derived Growth Factor-AB in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ as determined by the dose-dependent proliferation of mouse 3T3 indicator cells, is 1.4-2.1 ng/ml. This corresponds to a specific activity of 7.1x 10 ⁵ units/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**