

Human PDGF AB Recombinant Protein



RPPB0836

Product Information Protein Information

Product SKU:

RPPB0836

Host:

Escherichia Coli.

Protein 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 chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

Glioma-derived growth factor, GDGF, Osteosarcoma-derived Growth Factor, ODGF, PDGF-AB.

Formulation:

Lyophilized from 10mM AcOH (Acetic Acid).

Purity:

Greater than 95.0% as determined by SDS-PAGE analysis.

Solubility:

It is recommended to reconstitute the lyophilized Platelet-derived Growth Factor-AB in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

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.

Amino Acid Sequence:

Alpha chain: MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKCQPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATTSLN PDYREEDTGR PRESGKKRKR KRLKPT. Beta chain: SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLVW PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV QVRKIGIVRK KPIFKKATVT LGDHLACKCE TVAAARPVT.

Biological Activity:

The ED₅₀ 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 10⁵ units/mg.