

BACKGROUND

Platelet-Derived Growth Factor (PDGF) is a mitogenic peptide growth hormone carried in the alpha-granules of platelets and is released when platelets adhere to traumatized tissues. Connective tissue cells near the traumatized region respond by initiating the process of replication. The synthesis of PDGF can be induced by IL-1, IL-6, TNF- α , TGF- β and EGF.

Recombinant mouse PDGF-AA is a non-glycosylated, disulfide-linked homodimer. It is comprised of two 126 amino acid proteins, each with a total molecular weight of 28.9 kDa.

Alternative Names:

GDGF, ODGF

Amino Acid Sequence:

MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE
VKRCTGCCNT SSVKCQPSRV HHRSVKVAKV EYVRKKPKLK
EVQVRLEEHL ECACATSNLN PDHREEETGR RRESGKNRKR
KRLKPT

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant mouse PDGF-AA is lyophilized with no additives.

Stability:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:

The activity is determined by the dose-dependent proliferation of Balb/c 3T3 cells and is typically 8-10 ng/ml.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

