

Recombinant Mouse Platelet-derived Growth Factor-AA (rm PDGF-AA)

PDGF-AA, PDGF-BB and PDGF-AB, are potent mitogens for a variety of cell types including smooth muscle cells, connective tissue cells, bone and cartilage cells and some blood cells. The PDGF is stored in platelet alpha-granules and released upon platelet activation. The PDGF is involved in a number of biological processes including hyperplasia, chemotaxis, embryonic neuron development and respiratory tubule epithelial cell development. Two distinct signaling receptors used by PDGF have been identified and named PDGFR-alpha and PDGFR-beta. PDGFR-alpha is high-affinity receptor for each of the three PDGF forms. On the other hand PDGFR-beta interacts with only PDGF-BB and PDGF-AB.

Recombinant mouse PDGF-AA is a disulfide linked homodimeric, non-glycosylated, polypeptide chain containing 2 x 126 amino acids and having a total molecular mass of 28.9 kDa.

PDGF-AA is purified by proprietary chromatographic techniques

- Synonyms :** Glioma-derived growth factor, GDGF, Osteosarcoma-derived Growth Factor, ODGF, PDGF-1
- Source:** *Escherichia coli*
- AA Sequence:** SIEEAVPAVC KTRTVIYEIP RSQVDPTSAN FLIWPPCVEV KRCTGCCNTS
SVKCQPSRVH HRSVKVAKVE YVRKKPKLKE VQVRLEEHL E CACATSNLNP
DHREEETGRR RESGKNRKRK RLKPT
- Formulation:** Lyophilized from a 0.22 µm filtered solution in 100mM acetic acid.
- Reconstitution:** Reconstitute in sterile endotoxin free water not less than 100 µg/ml
- Stability:** Lyophilized PDGF-AA although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PDGF-AA 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). A void repeated freeze/thaw cycles.
- Biological Activity:** Established by the dose-dependent stimulation of Balb/c 3T3 cells proliferation. The expected ED₅₀ for this effect is 8-10 ng/ml.
- Purity:** > 97.0% (verified by RP-HPLC and by SDS-PAGE)
- Endotoxicity:** The endotoxin level is less than 1 EU / µg determined by LAL method.
- Order N°:** rm PDG FAA-+Size
available sizes: 2 µg, 10 µg, 50 µg

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