

Recombinant Human PDGF-AA

Information

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|--------------------------------|---|
| Gene ID | |
| Accession # | |
| Alternate Names | |
| Source | <i>Escherichia coli</i> . |
| M.Wt | Approximately 28.8 kDa, a disulfide-linked homodimeric protein containing two 126 amino acid residues polypeptide. But it migrates with an apparent molecular mass of 33.6 kDa in SDS-PAGE. |
| AA Sequence | MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKCQPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATTSLN PDYREEDTGR PRESGKKRKR KRLKPT |
| Appearance | Sterile Filtered White Lyophilized (freeze-dried) powder. |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution. |
| Formulation | Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, 300 mM NaCl, pH 6.0. |
| Reconstitution | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions. |
| Biological Activity | Measured in a cell proliferation assay using NR6R-3T3 mouse fibroblast cells. The ED ₅₀ for this effect is 50--200 ng/mL in a fluorometric assay using the redox sensitive dye. |
| Shipping Condition | Gel pack. |
| Handling | Centrifuge the vial prior to opening. |
| Usage | For Research Use Only! Not to be used in humans. |

Components and Storage

| Components | 10 µg | 100 µg | 500 µg |
|---------------------------|-------|--------|--------|
| Recombinant Human PDGF-AA | 10 µg | 100 µg | 500 µg |

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Quality Control

| | |
|-----------|--|
| Purity | > 95 % by SDS-PAGE. |
| Endotoxin | Less than 0.1 EU/μg of rHuPDGF-AA as determined by LAL method. |

Description

Platelet-derived growth factor (PDGF) presenting in serum but absent from plasma was first discovered in animal study by Lynch and co-workers in the late 1980s. It is a disulfide-linked dimer consisting of two peptides-chain A and chain B. PDGF has three subforms: PDGF-AA, PDGF-BB, PDGF-AB. It is involved in a number of biological processes, including hyperplasia, embryonic neuron development, chemotaxis, and respiratory tubule epithelial cell development. The function of PDGF is mediated by two receptors (PDGFR- α and PDGFR- β).

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