

# Recombinant Human Platelet-derived Growth Factor-AA (rHuPDGF-AA)

## PrimeGene Technical Data Sheet

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<b>Catalog Number:</b>	105-08
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	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.
<b>Quantity:</b>	2µg/10µg/1000µg
<b>AA Sequence:</b>	MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKQCPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATSLN PDYREEDTGR PRESGKKRKR KRLKPT
<b>Purity:</b>	> 95 % by SDS-PAGE.
<b>Biological Activity:</b>	Measured in a cell proliferation assay using NR6R-3T3 mouse fibroblast cells. The ED <sub>50</sub> for this effect is 50-200 ng/mL in a fluorometric assay using the redox sensitive dye.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, 300 mM NaCl, pH 6.0.
<b>Endotoxin:</b>	Less than 0.1 EU/µg of rHuPDGF-AA as determined by LAL method.
<b>Reconstitution:</b>	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.
<b>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

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### ***Human Platelet-derived Growth Factor-AA***

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).