



*Recombinant Human PDGF-AA*  
(Platelet Derived Growth Factor-AA)

*Catalog Number: 100-16*  
*Accession Number: P04085*

*Specifications and Uses:*

**Alternate Names:** GDGF, ODGF

**Description:**

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- $\alpha$ , TGF- $\beta$  and EGF. Recombinant human PDGF-AA is a non-glycosylated disulfide-linked homodimer, containing two 125 amino acid chains, with a total molecular weight of 28.5 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant human PDGF-AA is lyophilized with no additives. 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 (typically  $\geq 97\%$ ) determined by:**

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically  $\leq 1$  EU/ $\mu$ g protein.

**Biological Activity:**

The activity is determined by the dose-dependent proliferation of mouse 3T3 indicator cells and is typically 3-5 ng/mL.

**AA Sequence:**

SIEEAVPAVC KTRTVIYEIP RSQVDPTSAN FLIWPCCVEV KRCTGCCNTS SVKCQPSRVH HRSVKVAKVE  
YVRKKPKLKE VQVRLEEHL E CACATSLNP DYREEDTGRP RESGKKRKRK RLKPT

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

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