

## PDGF AA Human, HEK

**Description:**PDGF-AA Human Recombinant produced in HEK cells is a glycosylated homodimer, having a molecular weight range of 35-45kDa due to glycosylation. The PDGF-AA is purified by proprietary chromatographic techniques.

**Catalog #:**CYPS-116

**Synonyms:**Glioma-derived growth factor, GDGF, Osteosarcoma-derived Growth Factor, ODGF, PDGF-AA, PDGF-1.

For research use only.

**Source:**HEK.

**Physical Appearance:**Sterile Filtered White lyophilized (freeze-dried) powder.

**Purity:**Greater than 95% as observed by SDS-PAGE.

**Formulation:**

The PDGF-AA was lyophilized from 1mg/ml in 1xPBS.

**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). Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized PDGF-AA in sterile water not less than 100

**Introduction:**

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.

**Biological Activity:**

The specific activity was determined by the dose-dependent stimulation of the proliferation of 3T3 cells and is typically 200-1000ng/ml.

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