

Certificate of Analysis



Recombinant Human PDGF-AA

Catalog Number: 100-16

Lot Number: 0613-100-16

Product Description

Alternate Names: GDGF, ODGF **Accession/Uniprot Number:** P04085

Description: Platelet-derived growth factor (PDGF) is an important regulator of cell growth, proliferation, and angiogenesis. PDGF synthesis is induced by IL-1, IL-6, TNF- α , TGF- β and EGF signaling. PDGF functions as a mitogenic growth hormone on cells of mesenchymal lineage, such as smooth muscle and glial cells. PDGF is also stored in the alpha-granules of platelets and is released upon adherence to traumatized tissues. PDGF is a dimeric glycoprotein formed by two A chains (AA), two B chains (BB), or as a heterodimer with an A and a B chain (AB). The PDGF dimer binds the cell surface receptor tyrosine kinases PDGFR- α and PDGFR- β .

Source: Genetically modified *E.coli*.

Predicted MW: Dimer, 14.4/28.9 kDa (126/252 amino acids)

AA Sequence: MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKCQPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATTSLN PDYREEDTGR PRESGKKRKR KRLKPT

Formulation: Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

Product Specifications

Specification	Method of Determination	Acceptance Criteria	Result
Purity	Reducing and Non-reducing SDS-PAGE	$\geq 95\%$	$> 95\%$
Endotoxin	Kinetic LAL (50% confidence)	≤ 1 EUs/ug	0.08 EUs/ug
Biological Activity	NR6R-3T3 cell proliferation	ED50 ≤ 50 ng/mL ($\geq 2.0 \times 10^4$ units/mg)	ED50 = 25.7 ng/mL (3.9×10^4 units/mg)

Product Preparation and Storage

Country of Origin: USA **Shipping:** Room temperature **Storage Prior to Reconstitution:** -20°C

Reconstitution: Sterile water at 0.1 mg/mL **Date of Recon.:** _____ **Initials:** _____

Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws.

Expiration Date: _____ **Date Received:** _____

12 months from date of receipt when stored at -20°C to -80°C as supplied.

1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.

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

Olivia Schnsider, PhD 3/15/17

Quality Control