9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

PDGF AA Mouse

Platelet-derived Growth Factor AA Mouse Recombinant
GRF0303

Product Overview

Name	PDGF AA Mouse
Description	
Platelet-derived Growth Factor AA Mouse Recombinant	
Accession (Primary)	P20033
Synonyms	
Glioma-derived growth factor, GDGF, Osteosarcoma-derived Growth Factor, ODGF, PDGF-AA, PDGF-1.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized with no additives.	
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.	
Purity	
Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKCQPSRV HHRSVKVAKV	

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EYVRKKPKLK EVQVRLEEHL ECACATSNLN PDHREEETGR RRESGKNRKR KRLKPT.

Biological Activity

Established by the dose-dependent stimulation of Balb/c 3T3 cells proliferation. The expected ED50 for this effect is 8-10 ng/ml corresponding to a specific activity of 100,000-125,000IU/mg.

Solubility

It is recommended to reconstitute the lyophilized PDGF-AA in sterile 18MΩ-cm H2O at a concentration ranging between 0.1-0.5mg per 1ml, which can then be further diluted to other aqueous solutions.

Precautions

PDGF AA Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P20033)