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

PDGF AA Rat

Platelet-Derived Growth Factor AA Rat Recombinant
GRF0304

Product Overview

Name	PDGF AA Rat
Description	
Platelet-Derived Growth Factor AA Rat Recombinant	
Accession (Primary)	P28576
Synonyms	
Platelet-derived growth factor subunit A, PDGF subunit A, PDGF-1, Platelet-derived growth factor A chain, Platelet-derived growth factor alpha polypeptide, Pdgfa, Rpa1.	
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	
PDGF-AA was lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH7.0.	
Stability	
Lyophilized Platelet-derived Growth Factor 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.	

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Amino acid sequence

MSIEEAIPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKCQPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATSNLN PDHREEETDV R.

Biological Activity

The ED 50 , as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 5.0 ng/ml, corresponding to a specific activity of > 2.0 × 10 5 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized Platelet-derived Growth Factor-AA in Sterile 4mM HCl to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.

Precautions

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

Target Information: (P28576)