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PDGF AA Human, Yeast

Platelet-derived Growth Factor AA Human Recombinant, Yeast
GRF0302

Product Overview

Name	PDGF AA Human, Yeast

Description

Platelet-derived Growth Factor AA Human Recombinant, Yeast

Accession (Primary)	P04085

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

Pichia Pastoris.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized with 20mM sodium phosphate buffer.

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 98.0% as determined by SDS-PAGE.

Biological Activity

The ED50 was found to be 1ng/ml corresponding to a Specific Activity of 1,000,000IU/mg calculated by the ability to

stimulate the proliferation of mouse 3T3 fibroblasts (PNAS 94, 10205, 1997. Biochemistry, 1996, 35, 12077).

Solubility

It is recommended to reconstitute the lyophilized PDGF-AA in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

PDGF AA Human, Yeast is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P04085)