www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

PDGF AA Human, Yeast

Catalog #:CYPS-575

For research use only.

Description:PDGF-AA Human Recombinant produced in Yeast is a homodimeric, glycosilated, polypeptide chain containing 2 x 110 amino acids and having a total molecular mass of 34 kDa. PDGF-AA is purified by proprietary chromatographic techniques.

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

Source: Pichia Pastoris.

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

Purity: Greater than 98.0% as determined by SDS-PAGE.

Formulation:
The protein was lyophilized with 20mM sodium phosphate buffer.

Stability:
Lyophilized PDGF-AA althoμgh 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:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

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

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 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).

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