cell culture reagents

Datasheet

Platelet-Derived Growth Factor AA

Human Recombinant

Product	Description	Catalogue-No.	Size
PDGF-AA	Platelet-derived growth factor AA human recombinant	CB-3410010 CB-3410011	10 µg 1 mg

Product description
Synonyms: Glioma-derived growth factor, Osteosarcoma-derived growth factor, PDGF-1

Platelet-derived growth factor AA (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. 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 a high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR-beta interacts with only PDGF-BB and PDGF-AB. PDGF-AA human recombinant is a homodimeric, non-glycosylated, polypeptide chain containing 2 x 125 amino acids and having a total molecular mass of 28,511 Dalton. PDGF-AA is purified by proprietary chromatographic techniques

Solubility and storage conditions
It is recommended to reconstitute the lyophilized PDGF-AA in sterile, distilled water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Lyophilized PDGF-AA although stable at room temperature for 3 weeks, should be stored desiccated below -20° C. Upon reconstitution PDGF-AA should be stored at 2-8° C up to 7 days and for future use below -20° C. Please prevent freeze-thaw cycles.

Composition
Sterile filtered white lyophilized (freeze-dried) powder; lyophilized from a 0.2 µm filtered solution without additives.
Purity: > 95.0% as determined by analysis by SDS-PAGE.
Amino acid sequence: SIEEAVPAVC KTRTVIYEIP RSQVDPTSAN FLIWPPCVEV KRCTGCCNTS SVKCQPSRVH HRSVKVAKVE YVRKKPKLKE VQVRLEEHLE CACATTSLNP DYREEDTGRP RESGKKRKRK RLKPT
Biological activity: the ED50, calculated by the dose-dependent proliferation of murine 3T3 indicator cells is < 0.32 ng/ml, corresponding to a specific activity of 3.125×10^3 units/mg.

Suitability
FOR RESEARCH USE ONLY!
Not approved for human or animal diagnostic or therapeutic procedures.

Technical Support
For technical support or questions or please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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