Recombinant Human PDGF-aa

Cat. #: SPFA-010

Product Specifications

- Expression of Human Proteins in Human Cells
- Extremely Low Endotoxin Level
- High Purity
- Animal Free and Xeno Free
- Tag Free

Protein Description

PDGF is not one molecule but three, each a dimeric combination of two distinct but structurally related peptide chains designated A and B. The dimeric isoforms PDGFa a, ab and bb are differentially expressed in various cell types and their effects are mediated through two distinct receptors, termed α and β. The PDGFs play an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. They are involved in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development.

References

Andrae J, et al. (2008) Genes Dev. 22, 1276-1312.

Shim AH, et al. (2010) Proc. Natl. Acad. Sci. USA 107, 11307-11312.

Source: Derived from human cells

Size: 10 µg

Shipping: Ambient temperature

Structure: Glycosylated monomer

Purity: >95% by SDS-PAGE

Endotoxin Level: <0.5 EU/µg

Molecular Weight: 35, 40, 45 kDa

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS without carrier protein

Activity Assay

Activity was measured by its ability to stimulate the proliferation of 3T3 cells.

Reconstitution

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 10mM acetic acid containing 0.1% endotoxin-free recombinant human serum albumin.

Stability and Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80° C as supplied. 1 month, 2 to 8° C under sterile conditions after reconstitution. 3 months, -20 to -80° C under sterile conditions after reconstitution.

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CELL ADVANCEMENTS

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