Stemimmune LLC
4777 Bennett Drive,STE F
Livermore, CA 94551
Email: orders@stem-immune.com

Recombinant Human PDGFbb

Cat# EME-PFb

Product Specifications

- Expression of Human Proteins in E.Coli
- Extreme low Endotoxin
- High Purity
- Animal Free and Xeno Free
- Tag Free

Source: E.coli derived

Structure: Disulfide linked homodimer

Purity: >95% by SDS-PAGE

Endotoxin Level: <0.5EU/ug

Molecular Weight: 12.3kDa (monomer)

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

Activity Assay

The activity was measured by its ability to stimulate the proliferation of 3T3 mouse fibroblast cells.

Reconstitution

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

Stability & 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.

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 PDGFaa, 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 plays 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. U.S.A. 107,11307-11312.