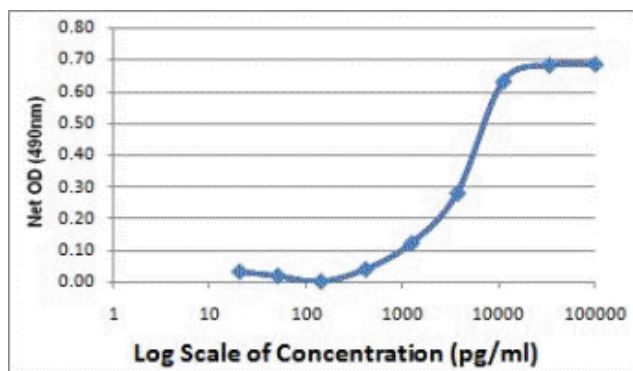


## Mouse PDGF-AA Recombinant Protein

**Catalog Number:** 14-8989

**Also Known As:** Platelet derived growth factor

**RUO: For Research Use Only**



Proliferation of 3T3 cells in response to Mouse PDGF-AA Recombinant Protein

### Product Information

**Contents:** Mouse PDGF-AA Recombinant Protein

**REF** **Catalog Number:** 14-8989

**Handling Conditions:** For best recovery, quick-spin vial prior to opening. Use in a sterile environment


**Source:** E. coli

**Purity:** Greater than 97%, as determined by SDS-PAGE


**Endotoxin Level:** Less than 0.01 ng/ug cytokine as determined by the LAL assay.

**Bioactivity:** The ED<sub>50</sub> measured in a 3T3 proliferation assay is typically 9.7 ng/ml, corresponding to a specific activity of approximately 1 x10<sup>5</sup> Units/mg.

**Formulation:** Sterile liquid; phosphate buffered saline, 1% BSA. 0.22 µm filtered.

 **Temperature Limitation:** Store at less than or equal to -70°C.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

### Description

The platelet-derived growth factor AA (PDGF-AA) is a member of the PDGF family. The PDGF proteins are derived from four genes (PDGF-A, -B, -C, and -D) that form four disulfide-linked homodimers (PDGF-AA, -BB, -CC, and -DD) and one heterodimer (PDGF-AB). PDGF-AA plays an important role as a mitogen for a number of cell types. Recombinant Mouse PDGF-AA produced in *e.coli* is a non-glycosylated homodimer of 126 amino acids with a molecular weight of 28.9 kDa.

### Applications Reported

Recombinant mouse PDGF-AA is biologically active and can promote proliferation of mouse 3T3 cells in culture.

### Applications Tested

This reagent has been tested in bioassays using the mouse cell line 3T3. The ED<sub>50</sub> measured in a 3T3 proliferation assay is typically 10 ng/ml, corresponding to a specific activity of approximately 1 x10<sup>5</sup> Units/mg.

### References

Gnessi, L. Basciani, S. Mariani, S. Arizzi, M. Spera, G. Wang, C. Bondjers, C. Karlsson, L. Betsholtz, C. Leydig cell loss and spermatogenic arrest in platelet-derived growth factor (PDGF)-A-deficient mice. *J Cell Biol.* 2000 May 29;149(5):1019-26.

Rorsman, F. Bywater, M. Knott, T. J. Scott, J. Betsholtz, C. Structural characterization of the human platelet-derived growth factor A-chain cDNA and gene: alternative exon usage predicts two different precursor proteins. *Mol Cell Biol.* 1988 Feb;8(2):571-7.

Betsholtz C, Johnsson A, Heldin CH, Westermark B, Lind P, Urdea MS, Eddy R, Shows TB, Philpott K, Mellor AL, et al. cDNA sequence and chromosomal localization of human platelet-derived growth factor A-chain and its expression in tumour cell lines. *Nature.* 1986 Apr 24-30;320(6064):695-9.

### Related Products

14-8501 Human PDGF-BB Recombinant Protein

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