

# Mouse PDGF-AA Recombinant Protein, eBioscience™

## Product Details

Size	25 µg
Species	Mouse
Expression system	E. coli
Amino acid sequence	126aa
Molecular weight	28.9 kDa
Class	Recombinant
Type	Protein
Purity	>90% by SDS-PAGE
Endotoxin concentration	0.1 ng/µg
Activity	ED50 = 9.7 ng/mL; determined by the dose-dependent proliferation of mouse 3T3 cells.
Conjugate	Unconjugated
Form	Liquid
Concentration	0.1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	-80°C

## Applications

Applications	Tested Dilution	Publications
Functional Assay (FN)	Assay-Dependent	-
Control (Ctrl)	Assay-Dependent	-
Miscellaneous PubMed (Misc)	-	2 Publications

## Product Specific Information

**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 ED50 measured in a 3T3 proliferation assay is typically 10 ng/mL, corresponding to a specific activity of approximately 1 x10e5 Units/mg.

**Bioactivity:** The ED50 measured in a 3T3 proliferation assay is typically 9.7 ng/mL, corresponding to a specific activity of approximately 1 x10e5 Units/mg.

**Endotoxin:** Less than 0.1 ng/µg cytokine as determined by the LAL assay. Purity: >97% as determined by SDS-PAGE.

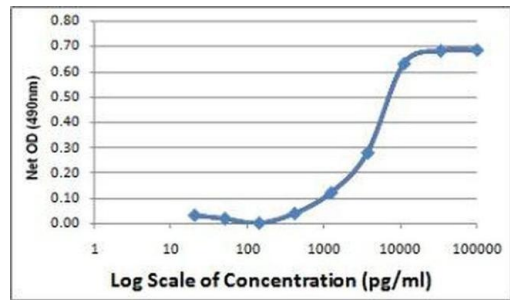
**Storage and handling:** For best recovery, quick-spin vial prior to opening. Use in a sterile environment.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Mouse PDGF-AA Recombinant Protein, eBioscience™



**Mouse PDGF-AA Protein (14-8989-80) in FN**  
Proliferation of 3T3 cells in response to Mouse PDGF-AA Recombinant Protein.

2 References

Miscellaneous PubMed (2)

<p>Cell stem cell</p> <p><b>Skin Adipocyte Stem Cell Self-Renewal Is Regulated by a PDGFA/AKT-Signaling Axis.</b></p> <p>Authors: Rivera-Gonzalez GC,Shook BA,Andrae J,Holtrup B,Bollag K,Betsholtz C,Rodeheffer MS,Horsley V</p>	<p>Year</p> <p>2016</p>
<p>Experimental eye research</p> <p><b>Effect of TGF and PDGF-B blockade on corneal myofibroblast development in mice.</b></p> <p>Authors: Singh V,Santhiago MR,Barbosa FL,Agrawal V,Singh N,Ambati BK,Wilson SE</p>	<p>Year</p> <p>2011</p>

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.