

Active Recombinant Human PDGFA Protein

Cat. No. PDGFA-093H **Lot. No.** (See product label)

SPECIFICATION

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|---------------------------------|---|
| Product Overview | The mature recombinant human PDGF-AA homodimer containing 135aa (S87-T211) without tag was expressed in E. coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 87-211 a.a. |
| Description | This gene encodes a member of the protein family comprised of both platelet-derived growth factors (PDGF) and vascular endothelial growth factors (VEGF). The encoded preproprotein is proteolytically processed to generate platelet-derived growth factor subunit A, which can homodimerize, or alternatively, heterodimerize with the related platelet-derived growth factor subunit B. These proteins bind and activate PDGF receptor tyrosine kinases, which play a role in a wide range of developmental processes. Alternative splicing results in multiple transcript variants. |
| Bio-activity | The ED50 as determined by the dose-dependent stimulation of thymidine uptake by Balb/c 3T3 cells is ≤ 1 ng/mL, corresponding to a specific activity of $\geq 1 \times 10^6$ units/mg. |
| Molecular Mass | 29 kDa |
| Product-Related Proteins | 87-211 |

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|-----------------------|--|
| Endotoxin | < 0.1 EU/μg of the protein as determined by the LAL method |
| Purity | > 95 % as determined by SDS-PAGE |
| Storage | At -80 centigrade. Avoid repeated freeze-thaw cycles. |
| Storage Buffer | PBS |

GENE INFORMATION

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|------------------------|---|
| Gene Name | PDGFA platelet derived growth factor subunit A [Homo sapiens (human)] |
| Official Symbol | PDGFA |
| Synonyms | PDGFA; platelet derived growth factor subunit A; PDGF1; PDGF-A; platelet-derived growth factor subunit A; Names; PDGF A-chain; PDGF subunit A; platelet-derived growth factor A-chain; platelet-derived growth factor alpha chain; platelet-derived growth factor alpha polypeptide |
| Gene ID | 5154 |
| mRNA Refseq | NM_002607 |
| Protein Refseq | NP_002598 |
| MIM | 173430 |
| UniProt ID | P04085 |

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