

Active Recombinant Human PDGFA Protein

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

SPECIFICATION

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

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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