

Active Recombinant Human PDGFA Protein (Ser87-Thr211), GMP Grade, Animal-Free

Cat. No. PDGFA-17HG Lot. No. (See product label)

SPECIFICATION

Product Overview	GMP recombinant human PDGF-AA protein (Ser87-Thr211) without tag was expressed in E. coli, produced in an Animal-Free laboratory and manufactured and tested under cGMP guidelines.
Species	Human
Source	E.coli
ProteinLength	Ser87-Thr211
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.
Form	Disulfide-linked homodimer
Bio-activity	Measured in a cell proliferation assay using NR6R-3T3 mouse fibroblast cells. The ED50 for this effect is typically 50-200 ng/mL in a fluorometric assay using the redox sensitive dye, Resazurin.

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Molecular Mass	Predicted Molecular Mass: 14 kDa SDS-PAGE: 15-20 kDa, reducing conditions
N-terminal Sequence Analysis	Ser87-Ile-Glu-Glu-Ala-Val-Pro-Ala-Val-(Cys)
Endotoxin	<0.01 EU/ µg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE with silver staining, under reducing conditions.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. A minimum of 12 months when stored at ≤ -20 centigrade as supplied. Refer to lot specific COA for the Use by Date. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA.
Reconstitution	Reconstitute at 100-200 µg/mL in sterile 4 mM HCl.
Shipping	The product is shipped with polar packs.

GENE INFORMATION

Gene Name	PDGFA platelet-derived growth factor alpha polypeptide [Homo sapiens]
Official Symbol	PDGFA
Synonyms	PDGFA; platelet-derived growth factor alpha polypeptide; platelet-derived growth factor subunit A; PDGF A chain; PDGF A; PDGF1; platelet derived growth factor alpha chain; PDGF-1; PDGF A-chain; PDGF subunit A; platelet-derived growth factor

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A chain; platelet-derived growth factor alpha chain; platelet-derived growth factor alpha isoform 2 preproprotein; PDGF-A;

Gene ID 5154

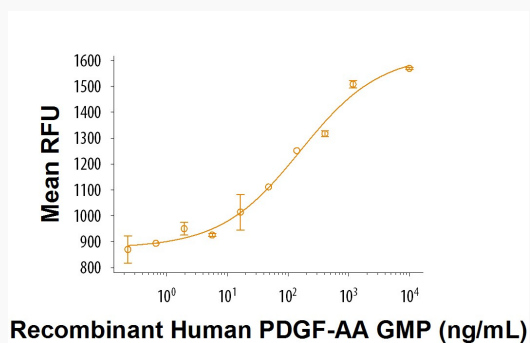
mRNA Refseq NM_002607

Protein Refseq NP_002598

MIM 173430

UniProt ID P04085

Bioactivity

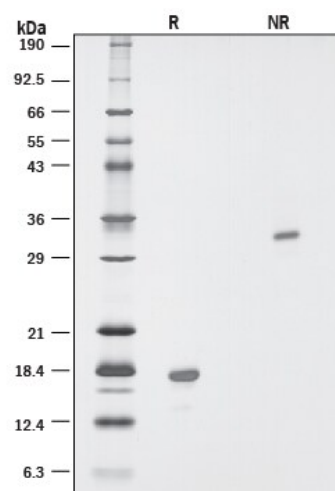


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SDS-PAGE



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