

Recombinant Human PDGFA Protein

Cat. No. PDGFA-32H Lot. No. (See product label)

SPECIFICATION

Product Overview	<p>Recombinant human PDGF-AA protein without tag was expressed in E. coli. Animal-free (AOF) and carrier protein-free.</p> <p>Mass spectrometry: single species with expected mass. Analytical reversed-phase: single sharp peak. Recovery from stock vial: >95%</p>
Species	Human
Source	E.coli
Description	<p>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.</p>
Molecular Mass	29 kDa
Endotoxin	<0.005 EU/μg protein (below level of detection)
Applications	Maturation of hepatoblasts into hepatocyte like cells
Storage	Resuspend in water at >100 μg/mL, prepare single use aliquots, add carrier protein if

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desired and store frozen at -20 or -80 centigrade

Storage Buffer Lyophilized from acetonitrile, TFA

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; 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_033023

Protein Refseq NP_148983

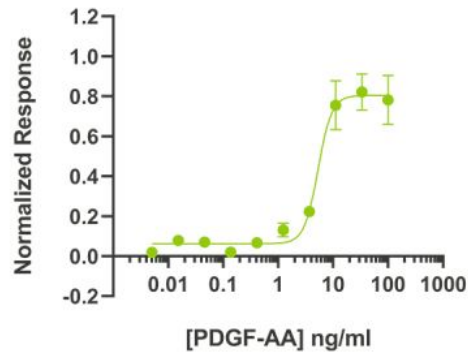
MIM 173430

UniProt ID P04085

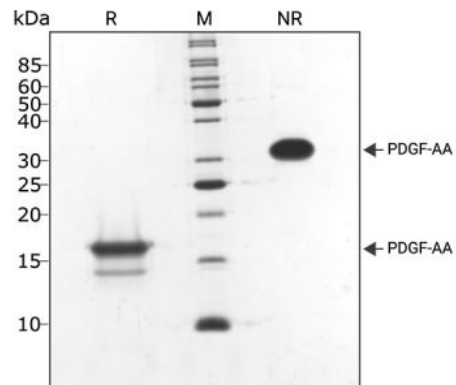
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Bioactivity


PDGF-AA activity is determined by the proliferation of Balb/c 3T3 cells. Cells are treated in triplicate with a serial dilution of PDGF-AA for 3 days. Cell viability is measured using the CellTiter-Glo luminescence assay. EC₅₀ = 5.3 ng/mL (0.19 pM).

Purity


PDGF-AA migrates as a single band at ~30 kDa in non-reducing conditions and ~15


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kDa upon reductionis due to the harsh treatment required to fully reduce the disulfide linked dimer. Purified recombinant protein was resolved using 15% w/v SDS-PAGE in reducedand non-reducedconditions and stained with Coomassie Brilliant Blue R250.

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