

Active Recombinant Human Platelet-derived Growth Factor AA

Cat. No. PDGFA-375H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human Xeno-free PDGF $\alpha\alpha$ is expressed in <i>human 293 cells</i> as a mixture of pro-dimers, pro-mature and mature dimers with an apparent molecular mass of 35 to 45 kDa.
Species	Human
Source	HEK293
Description	Platelet-derived growth factor subunit A is a protein that in humans is encoded by the PDGFA gene. The protein encoded by this gene is a member of the platelet-derived growth factor family. The cytokine is produced in a human cell expression system with serum free, chemically defined media.
Activity	200 to 1000 ng/mL ED50.
Purity	>95%.
Endotoxin	Endotoxin-free.
Purity Confirmation	The protein was resolved by SDS polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.
Activity Assay	The specific activity was determined by the dose-dependent stimulation of the proliferation of 3T3 cells.

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Pathways Focal adhesion; Gap junction; Glioma; MAPK signaling pathway; Melanoma; Prostate cancer; Regulation of actin cytoskeleton; Hemostasis

GENE INFORMATION

Gene Name [PDGFA platelet-derived growth factor alpha polypeptide \[Homo sapiens \]](#)

Synonyms platelet-derived growth factor alpha polypeptide; PDGF1; PDGF-A; PDGFA; platelet-derived growth factor alpha; PDGF A-chain; platelet-derived growth factor alpha chain; platelet-derived growth factor alpha isoform 2 preproprotein; PDGF1; PDGF subunit A; Platelet-derived growth factor A chain; platelet-derived growth factor alpha polypeptide

Gene ID [5154](#)

mRNA Refseq [NM_002607](#)

Protein Refseq [NP_002598](#)

MIM [173430](#)

UniProt ID [P04085](#)

Chromosome Location 7p22

Function cell surface binding; collagen binding; growth factor activity; platelet-derived growth factor binding; platelet-derived growth factor receptor binding; contributes_to platelet-derived growth factor receptor binding; platelet-derived growth factor receptor binding; protein heterodimerization activity; protein homodimerization activity

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