

Active Recombinant Human PDGFD

Cat. No. PDGFD-211H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDGFD (Ser250-Arg370) was expressed in Mouse NSO Cells.
Species	Human
Source	Mammalian Cells
ProteinLength	250-370 a.a.
Description	The protein encoded by this gene is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a core motif of eight cysteines, seven of which are found in this factor. This gene product only forms homodimers and, therefore, does not dimerize with the other three family members. It differs from alpha and beta members of this family in having an unusual N-terminal domain, the CUB domain. Two splice variants have been identified for this gene.
Molecular Mass	14 kDa (monomer)
Predicted N terminal	Ser250
Structure	Disulfide-linked homodimer
Formulation	Lyophilized from a 0.2 µ filtered solution in Acetonitrile and TFA.
Purity	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.

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Activity	Measured in a cell proliferation assay using NR6R-3T3 mouse fibroblast cells. The ED50 for this effect is typically 15 - 75 ng/mL in a fluorometric assay using the redox sensitive dye, Resazurin and 2 - 5 ng/mL when measured by 3H-thymidine incorporation.
EndotoxinLevel	<1.0 EU per 1 µg of the protein by the LAL method.
Reconstitution	Reconstitute at 100 µg/mL in sterile 4 mM HCl.
Storage	12 months from date of receipt, 20 to 70 °C as supplied. Avoid repeated freezethaw cycles.
OfficialSymbol	PDGFD

GENE INFORMATION

Gene Name	PDGFD platelet derived growth factor D [Homo sapiens]
Synonyms	PDGFD; platelet derived growth factor D; platelet-derived growth factor D; IEGF; MSTP036; SCDGF B; spinal cord derived growth factor B; PDGF-D; iris-expressed growth factor; spinal cord-derived growth factor B; spinal cord-derived growth factor-B; SCDGFB; SCDGF-B; MGC26867
Gene ID	80310
mRNA Refseq	NM_025208
Protein Refseq	NP_079484
MIM	609673

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UniProt ID	Q9GZP0
Chromosome Location	11q22.3
Pathway	Focal Adhesion; Focal adhesion; Focal adhesion; Gap junction; Gap junction; Melanoma
Function	growth factor activity

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