

Active Recombinant Human PDGFD protein

Cat. No. PDGFD-24H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDGFD was expressed in HEK293.
Species	Human
Source	CHO
Description	<p>PDGF-DD, also known as platelet-derived growth factor D, IEGF and SCDGFB, is a secreted growth factor belonging to the PDGF/VEGF family. It is highly expressed in the heart, pancreas, adrenal glands and ovary. PDGF-DD forms functional homodimers that bind and induce PDGF Rβ homodimers and PDGF Rα/β heterodimers that promote intracellular signaling. This plays an important role in the regulation of cell differentiation, migration and survival. It has also been reported that PDGF-DD can induce monocyte and macrophage recruitment, increase interstitial pressure and facilitate wound healing.</p>
Form	Lyophilized after extensive dialysis against PBS.
Bio-activity	ED50 < 5 μ g/ml, measured in a cell proliferation assay using 3T3 cells.
Molecular Mass	19-21 kDa, observed by reducing SDS-PAGE.
AA Sequence	<p>SYHDRKSKVD LDRLNDDAKR YSCTPRNYSV NIREELKLANVVFPRCLLV QRCGGNCGCG TVNWRSCN SGKTVKKYHEVLQFEPGHIK RRGRAKTMAL VDIQLDHER CDCICSSRPPR</p>

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant human PDGF-DD remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human PDGF-DD should be stable up to 1 week at 4 centigrade or up to 2 months at -20°C.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/ml.

GENE INFORMATION

Gene Name	PDGFD platelet derived growth factor D [Homo sapiens]
Official Symbol	PDGFD
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
UniProt ID	Q9GZP0

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Chromosome Location	11q22.3
Pathway	Focal Adhesion, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Gap junction, organism-specific biosystem; Gap junction, conserved biosystem; Melanoma, organism-specific biosystem; Melanoma, conserved biosystem;
Function	growth factor activity;

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