

Active Recombinant Human PDGFB Protein, Pre-aliquoted

Cat. No. PDGFB-14H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human PDGFB Protein, Ser82 - Thr190, was expressed in E. coli.

Species Human

Source E.coli

ProteinLength Ser82-Thr190

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 B, which can homodimerize, or alternatively, heterodimerize with the related platelet-derived growth factor subunit A. These proteins bind and activate PDGF receptor tyrosine kinases, which play a role in a wide range of developmental processes. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 17, at sites where this gene and that for collagen type 1, alpha 1 are located, are associated with dermatofibrosarcoma protuberans, a rare skin tumor. Alternative splicing results in multiple transcript variants

Bio-activity

Measured in a cell proliferation assay using NR6R-3T3 mouse fibroblast cells. The ED50 for this effect is 1.5-6.0 ng/mL.

Molecular Mass

Predicted Molecular Mass:12.3 kDa (monomer)
SDS-PAGE: 12 kDa, reducing conditions

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N-terminal Sequence Analysis	Ser82
Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	> 97% by SDS-PAGE under reducing conditions and visualized by silver stain.
Stability	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 6 months from date of receipt at room temperature as supplied. • 12 months from date of receipt at 2-8 centigrade as supplied. • 1 month at 2-8 centigrade under sterile conditions after reconstitution. • 3 months at -20 to -80 centigrade under sterile conditions after reconstitution.
Reconstitution	For a stock solution, reconstitute at 100 μg/mL in sterile 4 mM HCl, or simply roll Pre-aliquoted directly into cell culture medium for immediate use.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

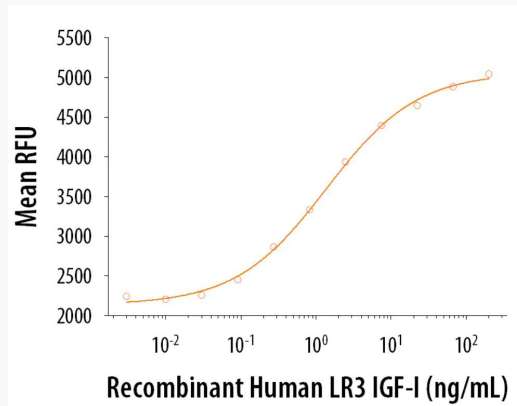
Gene Name	PDGFB platelet derived growth factor subunit B [Homo sapiens (human)]
Official Symbol	PDGFB
Synonyms	PDGFB; platelet derived growth factor subunit B; SIS; SSV; IBGC5; PDGF2; c-sis; PDGF-2; platelet-derived growth factor subunit B; PDGF subunit B; PDGF, B chain; becaptermin; epididymis secretory sperm binding protein; platelet-derived growth factor 2; platelet-derived growth factor B chain; platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog); platelet-derived growth factor, beta polypeptide (oncogene SIS); proto-oncogene c-Sis

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Gene ID	5155
mRNA Refseq	NM_002608
Protein Refseq	NP_002599
MIM	190040
UniProt ID	P01127

Bio-activity


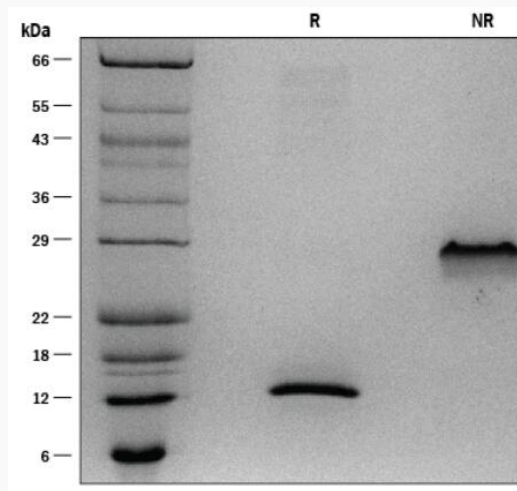
Recombinant Human PDGF-BB stimulates cell proliferation in the NR6R-3T3 mouse fibroblast cell line in a dose-dependent manner. The ED50 for this effect is 1.5-6.0 ng/mL.

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SDS-PAGE



1 µg/lane of Recombinant Human PDF-BB was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by silver staining, showing single bands at 13 kDa and 28 kDa, respectively.

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