

Product datasheet for DA3553X

PDGFB (PDGF-BB) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	PDGFB (PDGF-BB) human recombinant protein, 20 µg
Species:	Human
Expression Host:	E. coli
Predicted MW:	24.3 kDa
Concentration:	N/A
Purity:	>95% pure by SDS-PAGE and visualised by silver stain.
Buffer:	Presentation State: Purified State: Lyophilized purified protein Buffer System: 50 mM Acetic Acid without stabilizer Endotoxin: < 0.1 ng per ug of PDGF-BB
Bioactivity:	Biological: The ED50 as determined by the dose-dependent stimulation of thymidine uptake by Balb-c 3T3 cells is < 1 ng/ml. Specific: > 1 x 10e6 units/mg
Reconstitution Method:	The lyophilized PDGF-BB should be reconstituted in 50mM acetic acid to a concentration not lower than 100µg/ml. For long term storage of reconstituted protein addition of carrier protein (e.g. BSA or HSA; 0.1%) is recommended.
Preparation:	Lyophilized purified protein
Protein Description:	Recombinant Human PDGF-BB is a 24.3 kDa disulfide-linked homodimer of two B chains (218 total amino acids).
Storage:	Lyophilized Human PDGF-BB is stable for a few weeks at RT but best stored at -20°C. Reconstituted is best stored at -20°C to -70°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
RefSeq:	NP_002599
Locus ID:	5155
UniProt ID:	P01127
Cytogenetics:	22q13.1


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Synonyms:	Platelet-derived growth factor subunit B, PDGF beta, PDGF B, PDGF-B, Platelet-derived growth factor beta, PDGF subunit B, Platelet-derived growth factor B chain, PDGF2, PDGF-2, c-Sis, SIS, Becaplermin
Summary:	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. [provided by RefSeq, Oct 2015]
Protein Families:	Druggable Genome
Protein Pathways:	Cytokine-cytokine receptor interaction, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma