

Product datasheet for **TP750039**

PDGF beta (PDGFB) (NM_002608) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human platelet-derived growth factor beta polypeptide (PDGF-BB), transcript variant 1, Ser82-Thr190, Tag free, expressed in E.coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region (Ser82-Thr190) of PDGF-BB
Tag:	Tag Free
Predicted MW:	12.4 kDa
Concentration:	Resuspend the protein to the desired concentration in proper buffer.
Purity:	> 90% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a sterile solution containing PBS, pH 7.4
Endotoxin:	< 0.1 EU per 1 µg of the protein by the LAL
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability:	Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_002599</u>
Locus ID:	5155
UniProt ID:	<u>P01127</u> , <u>A0A384NYY3</u>
RefSeq Size:	3393
Cytogenetics:	22q13.1
RefSeq ORF:	723



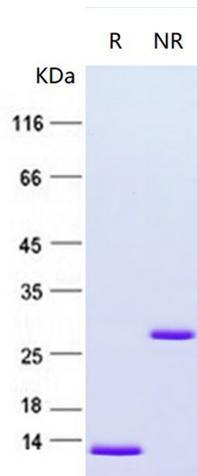
Synonyms: c-sis; IBGC5; PDGF-2; PDGF2; SIS; SSV

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]

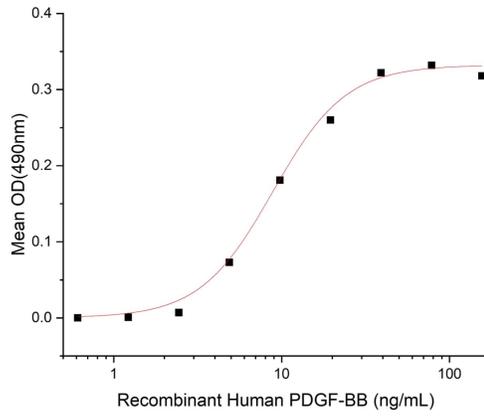
Protein Families: Druggable Genome

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

Product images:



Coomassie blue staining of purified PDGF-BB protein (Cat #TP750039). The protein was produced from E.coli.



Measured in a cell proliferation assay using 3T3 fibroblast cells. The ED50 for this effect is 4.3-12.9 ng/ml.