

DA3553S**Recombinant Human Derived Growth Factor BB (PDGF-BB)****Alternate names:**

Becaplermin, PDGF B, PDGF beta, PDGF subunit B, PDGF-2, PDGF-B, PDGF2, Platelet-derived growth factor B chain, Platelet-derived growth factor beta, Platelet-derived growth factor subunit B, SIS, c-Sis

Quantity:

2 µg

Background:

PDGFs are disulfide-linked dimers consisting of two 12.0-13.5 kDa polypeptide chains, designated PDGF-A and PDGF-B chains. The three naturally occurring PDGFs; PDGF-AA, PDGF-BB and PDGF-AB, are potent mitogens for a variety of cell types including smooth muscle cells, connective tissue cells, bone and cartilage cells, and some blood cells. The PDGFs are stored in platelet alpha-granules and are released upon platelet activation. The PDGFs are involved in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development. Two distinct signaling receptors used by PDGFs have been identified and named PDGFR-alpha and PDGFR-beta. PDGFR-alpha is high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR-beta interacts with only PDGF-BB and PDGF-AB.

Uniprot ID:

[P01127](#)

NCBI:

[NP_002599](#)

GeneID:

[5155](#)

Species:

Human

Source:

E. coli

Format:

State: Lyophilized purified protein

Purity: >95% pure by SDS-PAGE and visualised by silver stain.

Buffer System: 50 mM Acetic Acid without stabilizer

Endotoxin Level: < 0.1 ng per ug of PDGF-BB

Description:

Recombinant Human PDGF-BB is a 24.3 kDa disulfide-linked homodimer of two B chains (218 total amino acids).

Biological Activity: The ED50 as determined by the dose-dependent stimulation of thymidine uptake by Balb-c 3T3 cells is < 1 ng/ml.

Specific Activity: > 1 x 10⁶ units/mg

Molecular weight: 24.3 kDa (218 aa)

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.

Shelf life: One year from despatch.