

Recombinant Human PDGFbb

Product Description

PDGFs are mitogenic during early developmental stages, driving the proliferation of undifferentiated mesenchyme and some progenitor populations. During later maturation stages, PDGF signaling has been implicated in tissue remodeling and cellular differentiation, and in inductive events involved in patterning and morphogenesis. In addition to driving mesenchymal proliferation, PDGFs have been shown to direct the migration, differentiation and function of a variety of specialized mesenchymal and migratory cell types, both during development and in the adult animal. PDGF plays a role in embryonic development, cell proliferation, cell migration, and angiogenesis. PDGF is a required element in cellular division for fibroblast, a type of connective tissue cell. PDGF is also known to maintain proliferation of oligodendrocyte progenitor cells. Platelet-derived growth factor subunit B is also known as PDGFB, FLJ12858, PDGF2, SIS, SSV, c-sis, is a member of the platelet-derived growth factor family.

Typical Specifications

Species	Human
Expression	HEK293 Cell Expressed
Activity	<u>Assay 1</u> : Typically 0.02-0.6 µg/mL <u>Assay 2</u> : Typically 1-10 ng/mL ED ₅₀
Purity	>90%
Endotoxin	<1.0 EU/µg
Molecular Mass	25 kDa
Formulation	Acetonitrile and TFA
Country of Origin	USA

Limited Use and Restrictions

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Purity Confirmation

This was determined by SDS-PAGE.

Activity Assay

Assay#1: Measured by its binding ability in a functional ELISA.

Assay#2: The bio-activity was determined by dose-dependent stimulation of the proliferation of mouse 3T3 cells.

Reconstitution Buffer

See Certificate of Analysis for reconstitution instructions and specific concentrations.

Storage

Lyophilized Protein should be stored at -20° or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20° or -70°. Avoid repeated freeze-thaw cycles.