Recombinant Human PDGF-BB (Tag Free, E.coli)

Information

Gene ID	5155
Accession #	P01127-1
Alternate Names	PDGFB, c-sis, SIS, SSV, IBGC5, PDGF2, PDGF-2, PDGF subunit B, Platelet-derived growth factor subunit B
Source	E.coli
Protein sequence	SLGSLTIAEPAMIAECKTRTEVFEISRRLIDRTNANFLVWPPCVEVQRCSGCCNNRNVQCRPTQVQLRPVQ VRKIEIVRKKPIFKKATVTLEDHLACKCETVAAARPVT
Tag	Tag free
M.Wt	Approximately 12.2 kDa
Appearance	Solution protein.
Stability & Storage	Avoid repeated freeze-thaw cycles. It is recommended that the protein be aliquoted for optimal storage. -3 years from date of receipt, -20 to -70°C as supplied.
Concentration	1 mg/mL
Formulation	Supplied as a 0.2 μm filtered solution in PBS, pH7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Fully biologically active as determined by a cell proliferation assay using Balb/3T3 cells . The EC_{50} for this effect is 27 ng/mL.
Shipping Condition	Shipping with dry ice.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Quality Control

Purity	> 95 % by SDS-PAGE.
Endotoxin	Less than 0.1 EU/μg as determined by LAL method.

Description

Platelet-derived growth factor BB (PDGF-BB) is a member of the PDGF family and is a disulfide-linked homodimer. The PDGF family consists of proteins PDGF-A and PDGF-B that form three disulfide-linked homodimers (PDGF-AA, -BB, and -AB). PDGF is stored in platelet α-granules and released upon platelet activation. PDGF signaling is transmitted through the receptors PDGFR-α and PDGFR-β. PDGFR-α is a high-affinity receptor for each of the three PDGF forms. However, PDGFR-β interacts only with PDGF-BB and PDGF-AB. PDGF-BB is a potent mitogen for many cell types, including smooth muscle cells, connective tissue cells, bone and cartilage cells, and some blood cells. Recombinant human PDGF-BB is a 24.3 kDa B-chain homodimeric protein formed from 109-amino-acid subunits.

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