

Recombinant Human PDGF-BB Protein

Product Information

Product Name	Cat#	Size
Recombinant Human PDGF-BB Protein	91605ES05	2 µg
	91605ES10	10 µg
	91605ES50	50 µg
	91605ES60	100 µg
	91605ES76	500 µg

Product Description

Platelet-derived growth factor (PDGF) was discovered as a major mitogenic factor present in serum but absent from plasma. In vitro, PDGF-BB stimulated MAP kinase activity and cell motility of isolated lymphatic endothelial cells. In vivo, PDGF-BB potently induced growth of lymphatic vessels. Expression of PDGF-BB in murine fibrosarcoma cells induced tumor lymphangiogenesis, leading to enhanced metastasis in lymph nodes. The PDGF signaling system contributes to and vascular remodeling. Growth factors such as PDGF exert potent effects on wound healing including the regeneration of tooth-supporting structures.

Product Properties

Synonyms	Becaplermin, ODGF, PDGF-2, PDGFBB, PDGF-BB
Accession	P01127
GeneID	5155
Source	E.coli-derived human PDGF-BB protein, Ser82-Thr190, with an N-terminal Met.
Molecular Weight	Approximately 24.8 kDa
AA Sequence	MSLGSLTIAE PAMIAECKTR TEVFEISRRL IDRTNANFLV WPPCVEVQRC SGCCNNRNVQ CRPTQVQLRP VQVRKIEIVR KKPIFKKATV TLEDHLACKC ETVAAARPVT
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 3 ng/ml, corresponding to a specific activity of > 3.3 × 10 ⁵ IU/mg.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C for 1 year.

1 month, 2 to 8°C under sterile conditions after reconstitution.

3 months, -20°C under sterile conditions after reconstitution.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. For your safety and health, please wear lab coats and disposable gloves for operation.
2. For research use only.