Recombinant Human Platelet-derived Growth Factor-BB

(rHuPDGF-BB) Cat No. SB-ZR014

◆Description

Platelet-derived growth factors (PDGFs) are dimeric glycoprotein consisting of two 12.0-13.5 kDa polypeptide chains-chain A and chain B. The three naturally occurring subforms, PDGF-AA, PDGF-BB and PDGF-AB, are potent mitogen for cells of mesenchymal origin, including fibroblasts, smooth muscle cells and glial cells. PDGF is involved in various biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development. PDGFs signal through two receptors, PDGFR-α and PDGFR-β. Recombinant Human PDGF-BB is a 24.3kDa disulfide-linked homodimer of two β chains, the β chain is a single non-glycosylated polypeptide chain containing 110 amino acids.

◆Product Information

Product Name	Recombinant Human Platelet-derived Growth Factor-BB （rHuPDGF-BB）
Source	Expressed in *E. coli*
Molecular weight	Approximately 24.8kDa, containing two 110 amino acid residues polypeptide
Accession	P01127 Ser82-Thr190 with an N-terminal Methionine
AA sequence	MSLGSLTIAEPAMIAECKTRTEVFEISRRLIDRTNANFLVWPPCVEVQRCSGCCNNRNV QCRPTQVQLRPVQVRKIEIVRKKPIFKKATVTLEDHLACKCETVAAARPVT
Purity	＞97% by SDS-PAGE or HPLC
Biological activity	Fully biologically active when compared to standard. The ED_{50} as determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells is less than 3 ng/ml, corresponding to a specific activity of > $3.3x10^5$ IU/mg protein
Formulation	Lyophilized from a 0.2μm filtered solution in PBS, pH 7.4
Endotoxin level	＜0.1EU/μg rHuPDGF-BB protein
Reconstitution	**Before use this product, please read the direction below carefully.** 1、 This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. 2、 Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0mg/ml. 3、 Stock solutions should be apportioned into working aliquots and stored at ≤-20℃. Further dilutions should be made in appropriate buffered solutions.
Storage/ Stability	For long term storage, the product should be stored ≤-20℃. 36 months, -20 to -70℃ as supplied. 1 month, 2 to 8℃ under sterile conditions after reconstitution; 3 months, -20 to -70℃ under sterile conditions after reconstitution. **Please avoid repeated freeze-thaw cycles.**
THIS PRODUCT IS FOR RESEARCH, LABORATORY AND EVALUATION PURPOSE ONLY.	