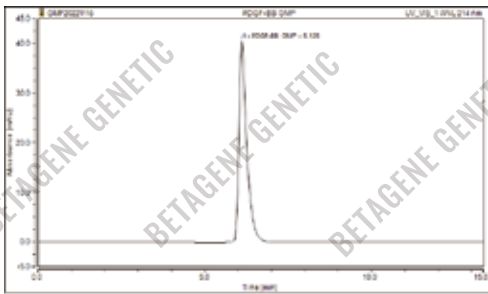


RECOMBINANT HUMAN PDGF-BB TAG-FREE GMP

Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Gene ID	5155
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 .
Catalog Number	GE01.1/GE01.2
Unit Size	50 μ g/100 μ g
Source	E. coli
Molecular Weight	24.8 kDa disulfide-linked homodimer of 2 β -chains, the β -chain is a single non-glycosylated polypeptide chain containing 110 amino acids.
AA Sequence	MSLGSLTIAEPAMIAECKTRTEVFEISRRLIDRTNANFLVWPPCQVEVQRCSGCCNNRNVCQCRPTQVQLRPVQVRKIEIVRKKPIFKKATVTLEDHLACKCETVAAARPV
Purity (HPLC)	> 97%
Purity (SDS-PAGE)	> 97%
Biological Activity	The ED ₅₀ as determined by a cell proliferation assay using murine Balb/c 3T3 cells is < 3 ng/mL, corresponding to a specific activity of > 3.3 \times 10 ⁵ Units/mg.
Host Cell DNA Residue	< 0.02 ng/ μ g of protein tested by DNA Fluorescent Staining method.
Host Cell Protein Residue	< 0.5 ng/ μ g of protein tested by ELISA.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS, pH 7.4
Sterility	Negative
Endotoxin	< 0.01EU/ μ g as determined by LAL gel-clot method.
Mycoplasma	Negative
Reconstitution	Before use this product, please read the direction below carefully. <ol style="list-style-type: none"> 1. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. 2. Reconstitute in a sterile aqueous buffer to an appropriate concentration. 3. Stock solutions should be apportioned into working aliquots and stored at \leq -20 $^{\circ}$C. Further dilutions should be made in appropriate buffered solutions.
Stability & Storage	For long term storage, the product should be stored \leq -20 $^{\circ}$ C. Please avoid repeated freeze-thaw cycles after reconstitution. <ol style="list-style-type: none"> 1. At least 24 months from date of receipt, \leq-20 $^{\circ}$C as supplied; 2. 1 month, 2 to 8 $^{\circ}$C under sterile conditions after reconstitution; 3. 3 months, -20 to -70 $^{\circ}$C under sterile conditions after reconstitution.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended.



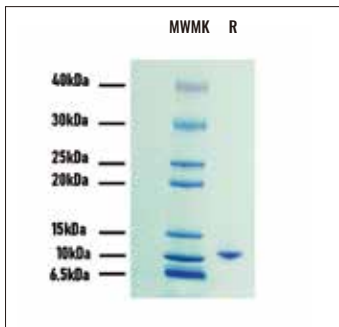
DATA



Purity of Recombinant Human PDGF-BB

HPLC

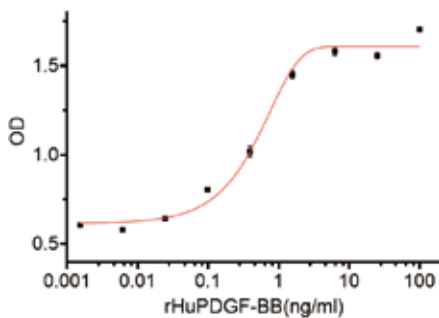
HPLC analysis of Recombinant Human PDGF-BB. The major peak corresponds to the calculated purity of > 97%



Purity of Recombinant Human PDGF-BB

SDS-PAGE

2 µg/lane of Recombinant Human PDGF-BB was resolved with SDS-PAGE under reducing (R) condition and visualized by Coomassie® Blue staining, showing R band of a single β-chain at 12kDa, corresponding to a total molecular weight of homodimer of 24kDa



Bioactivity of Recombinant Human PDGF-BB

The bioactivity of Recombinant Human PDGF-BB is determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells. The biological activity is $\geq 3.3 \times 10^5$ Units/mg protein.

CONTENTS

Product	Cat. No.	Amount	Storage	Shelf life
Recombinant Human PDGF-BB (GMP-Grade)	GE01.1 GE01.2	50µg 100µg	≤-20°C	24 months

LIMITED WARRANTY

BETAGENE™ Genetic and/or its affiliate(s) warrant their products as set forth in the BETAGENE Genetic' General Terms and Conditions of Sale. If you have any questions, please contact our staff at SALES@betagene.com.

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