

CHASELECTION

Recombinant Human Platelet-Derived

Growth Factor-BB/ PDGF-BB

Catalog Number: CY035F0XXX

Synonym:

Platelet-Derived Growth Factor-BB, Glioma-derived growth factor (GDGF), Osteosarcoma-derived Growth Factor (ODGF)

Source: *E.coli*

Structure:

Gene ID: NP_002599

AA Sequence:

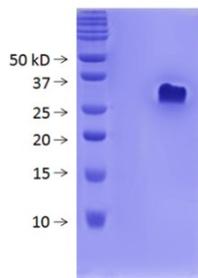
SLGSLTIAEP AMIAECKTRT EVFEISRRLI
DRTNANFLVW PPCVEVQRCS GCCNNRNVQC
RPTQVQLRPV QVRKIEIVRK KPIFKKATVT
LEDHLACKCE TVAAARPVT

Molecular Weight: 12.29kDa

Purity:

≥95% as determined by SDS-PAGE & HPLC

SDS-PAGE (Dimer)



Endotoxin: <0.1 EU/μg

Formulation:

PBS pH7.2

Reconstitution:

1. Before opening, please briefly centrifuge the contents to the bottom;
2. It is recommended to initially dissolve in sterile deionized water to an appropriate concentration (recommended concentration is 0.2-1mg/ml);
3. If further dilution is required, it is recommended to dilute the solution with a solution containing carrier proteins (eg., 0.1% BSA, 10% FBS, and 5% HSA).

Shipping & Storage:

The product is shipped with blue ice.

If long-term storage is required, this product should be stored at ≤ -20 °C, please avoid repeated freeze-thaw cycles.

1. Dry powder can be stored at ≤ -20 for at least 24 months;
2. After reconstitution, it can be stored for 1 month under sterile conditions at 2-8 °C ;
3. After reconstitution, it can be stored for 12 months under sterile conditions at -20~ -70°C.

Description:

PDGFs are disulfide-linked dimers consisting of two 12.0-13.5kDa polypeptide chains, designated PDGF-A and PDGF-B chains. The three naturally occurring PDGFs, PDGF-AA, PDGF-BB and PDGF-AB, are potent mitogens for a variety of cell types, including smooth muscle cells, connective tissue cells, bone and cartilage cells, and some blood cells. The PDGFs are stored in platelet α-granules, and are released upon platelet activation. The PDGFs are involved in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development. Two distinct signaling receptors used by PDGFs have been identified and named PDGFR-α and PDGFR-β. PDGFR-α is a high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR-β interacts with only PDGF-BB and PDGF-AB.

Recombinant Human PDGF-BB is a 24.3 kDa disulfide-linked homodimer of two β chains (218 total amino acids).

