CHASELECTION

Recombinant Human Platelet-Derived Growth Factor-AA/ PDGF-AA

Catalog Number：CY056F0XXX

Synonym：

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

Source： *E.coli*

Structure:

Gene ID: NP_002598

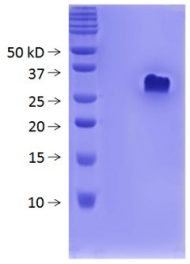
AA Sequence：
SIEEAVPAVC KTRTVIYEIP RSQVDPTSAN FLIWPPCVEV KRCTGCCNTS SVKCQPSRVH HRSVKVAKVE YVRKKPKLKE VQVRLEEHLE CACATTSLNP DYREEDTGRP RESGKKRKRK RLKPT

Molecular Weight: 14.31kD

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 ℃, 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 ℃ ;

3. After reconstitution, it can be stored for 12 months under sterile conditions at -20~ -70℃.

Description：

PDGFs are disulfide-linked dimers consisting of two 12.0-13.5 kDa 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-AA is a 28.5 kDa disulfide-linked homodimer of two A chains (250 total amino acids).