

Datasheet

Recombinant rat PDGF-BB

CARRIER-FREE

Catalog Number: PR15027CF

Product Type: Recombinant protein

Source: A DNA sequence encoding the mature rat PDGF B chain protein sequence (Herren B. *et al.*, 1993, Biochem. Biophys. ACTA **1173**:294 - 302) was expressed in *E. coli*.

Molecular Mass: The disulfide-linked homodimeric recombinant rat PDGF-BB, containing two 109 amino acid residue B chain monomers, has a predicted molecular mass of approximately 25 kDa.

Purity: > 97%, as determined by SDS-PAGE and visualized by silver stain.

Endotoxin Levels: < 1.0 EU per 1 µg of the cytokine as determined by the LAL method.

Activity: Measured by its ability to stimulate ³H-thymidine incorporation in quiescent NR6R-3T3 fibroblasts (Raines, E.W. *et al.*, 1985, Methods Enzym. **109**:749).

The ED₅₀ for this effect is typically 1 - 3 ng/mL.

Format: Lyophilized from a 0.2 µm filtered solution in 30% CH₃CN, 0.1% TFA.

Reconstitution: It is recommended that sterile phosphate-buffered saline be added to the vial to prepare a working stock solution of no less than 50 µg/mL. The carrier-free protein should be used immediately upon reconstitution to avoid losses in activity due to non-specific binding to the inside surface of the vial. For long term storage as a dilute solution, a carrier protein (e.g. 0.1% HSA or BSA) should be added to the vial.

Storage: Lyophilized samples are stable for up to six months at -20° C to -70° C.

Upon reconstitution, this cytokine, in the presence of a carrier protein, can be stored under sterile conditions at 2 - 8° C for one month or at -20° C to -70° C in a **manual defrost freezer** for three months without detectable loss of activity.

Avoid repeated freeze-thaw cycles.