

Recombinant Human Platelet-derived Growth Factor BB (rh PDGF-BB)

Synonyms: Glioma-derived growth factor, GDGF, Osteosarcoma-derived Growth Factor, ODGF, SIS, SSV, PDGF2, Becaplermin.

Introduction: PDGF-BB is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a motif of eight cysteines. This gene product can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 7, at sites where this gene and that for COL1A1 are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans resulting from unregulated expression of growth factor. Two splice variants have been identified for this gene.

Description: Recombinant human Platelet-Derived Growth Factor BB is a homodimeric, non-glycosylated polypeptide chain. PDGF-BB is purified by proprietary chromatographic techniques.

Source: *Escherichia coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: The protein was lyophilized from a 0.2µm filtered concentrated solution in 25 mM Naacetate

Solubility: It is recommended to reconstitute the lyophilized rh PDGF-BB in PBS.

Stability: Lyophilized rh PDGF-BB although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh PDGF-BB should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid Sequence: SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLVW PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV QVRKIEIVRK KPIFKKATVT LEDHLACKCE TVAAARPV

Biological Activity: Determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells. The expected ED₅₀ for this effect is 1.0-3.0 ng/ml.

Endotoxicity: The endotoxin level is less than 1 EU/µg determined by LAL method.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11343672
<i>medium</i>	10 µg	Cat.N°	11343673
<i>large</i>	50 µg	Cat.N°	11343675
<i>x-large</i>	250 µg	Cat.N°	11343677
<i>xx-large</i>	1000 µg	Cat.N°	11343678

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Gladiolenweg 2; 26169 Friesoythe; Germany
 phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com
www.immunotools.com