

HumanKine[®] PDGFbb (Recombinant Human)



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|-----------------------|----------------------|----------|----------------|
| Animal Component-Free | Human cell expressed | Tag-Free | Endotoxin Free |
|-----------------------|----------------------|----------|----------------|

Product Description

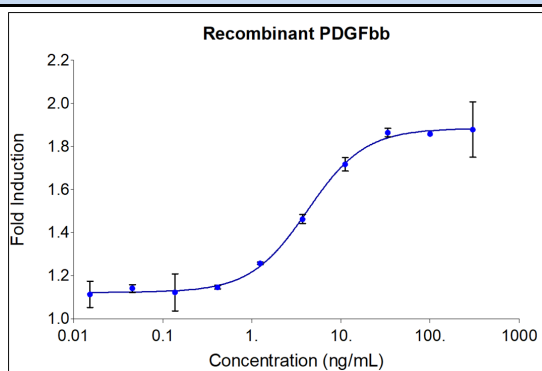
Animal-free Recombinant Human PDGFbb is a growth factor that promotes blood vessel formation, mitogenesis, chemotaxis, etc. The PDGF family members (four homodimers and one heterodimer) are secreted, disulfide-linked dimeric glycoproteins that regulate their cellular functions through interaction with PDGFR receptors. PDGFbb is synthesized, stored, and released by alpha granules of platelets. It is also known as PDGF-2, becaptermin, or GDGF. Dysregulation in PDGF signaling has been shown to be associated with tumorigenesis and progression of cancer. Recombinant PDGFbb is used in treatment of chronic ulcers and to speed healing in surgical procedures.

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|--------------------|--|
| Alternative Names | Becaplermin, c sis, FLJ12858, PDGF 2, PDGF subunit B, PDGF2, PDGFB, PDGFbb, Proto oncogene c Sis, SIS, SSV |
| Source | Human Embryonic Kidney cells (HEK293). HEK293-derived PDGFbb protein |
| Species Reactivity | human,mouse,rat |

Specifications

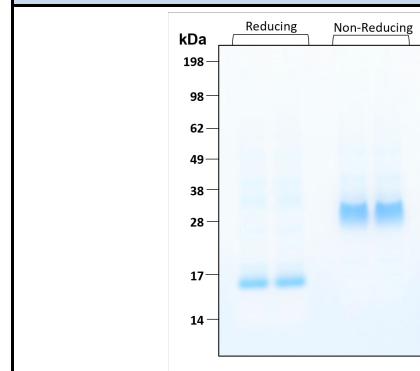
| Test | Method | Specification |
|----------------|--|---------------------------------------|
| Activity | Dose-dependent stimulation of the proliferation of 3T3 cells | 0.3-3 ng/mL EC50 |
| Molecular Mass | SDS-PAGE | 29 to 32 kDa, homodimer, glycosylated |
| Purity | SDS-PAGE | >95% |
| Endotoxin | LAL | <1 EU/μg |

Activity Data



Recombinant human PDGFbb (HZ-1308) stimulates dose-dependent proliferation of the NIH/3T3 mouse fibroblast cell line. Viable cell number was quantitatively assessed by Prestobule Cell Viability Reagent. NIH/3T3 cells were serum starved with 0.1% FBS for 24 hours before treatment with increasing concentrations of recombinant human PDGFbb for 48 hrs. The EC50 was

SDS-PAGE



| Preparation | |
|----------------------|---|
| Shipping Temperature | ambient temperature |
| Formulation | 50mM Acetate pH 3.5 + 500mM NaCl, See Certificate of Analysis for details |
| Reconstitution | Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 10 mM HOAc containing 0.1% endotoxin-free recombinant human serum albumin (HSA). |

| Stability and Storage | Product Form | Temperature Conditions | Storage Time (From Date of Receipt) |
|------------------------------------|---------------------------|------------------------|-------------------------------------|
| | Lyophilized | -20°C to -80°C | Until Expiry Date |
| | Lyophilized | Room Temperature | 2 weeks |
| | Reconstituted as per CofA | -20°C to -80°C | 6 months |
| | Reconstituted as per CofA | 4°C | 1 week |
| Avoid repeated freeze-thaw cycles. | | | |

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