

HumanKine[®] recombinant human PDGFbb protein

Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

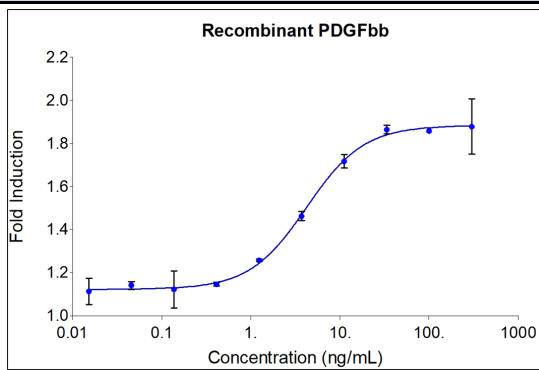
Animal-free Recombinant Human PDGFbb is a growth factor that promotes blood vessel formation, mitogenesis, chemotaxis, etc. The PDGF family members (four homodimers and one heterodimer) are secreted, disulfide-linked dimeric glycoproteins that regulate their cellular functions through interaction with 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.

Alternative Names	Becaptermin, 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

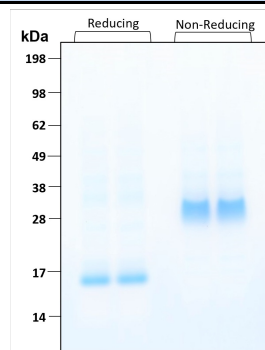
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of 3T3 cells	0.3-3 ng/mL
Molecular Mass	SDS-PAGE	14 and 36 kDa reduced, 29 to 32 kDa non-reduced, homodimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

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 to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

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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