Catalog Number: HZ-1308

Data Sheet

HumanKine® PDGFbb (Recombinant Human)

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

Product Description

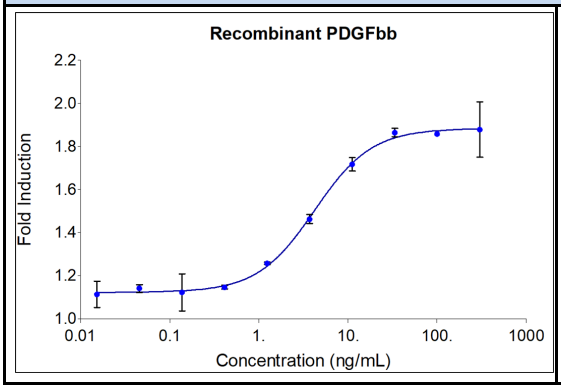
Animal-free Recombinant Human PDGFbb is a growth factor that promotes blood vessel formation, mitogenesis, chemotaxis, etc. The PDGF family members (four homodimers and one heterodimer) are secreted, disulfide-linked dimeric glycoproteins that regulate their cellular functions through interaction with PDGFR receptors. PDGFbb is synthesized, stored, and released by alpha granules of platelets. It is also known as PDGF-2, becaplermin, 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	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

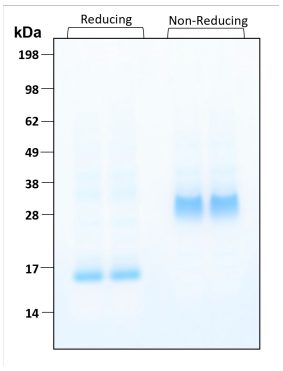
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of 3T3 cells	0.3-3 ng/mL EC50
Molecular Mass	SDS-PAGE	14 and 36 kDa reduced, 29 to 32 kDa non-reduced, homodimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

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 Prestoblue 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



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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 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
Stability and Storage	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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