

HumanKine® Pleiotrophin (PTN) (Recombinant Human)



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

Animal-free Recombinant Human Pleiotrophin is expressed in Human 293 cells as a secreted unglycosylated monomer. PTN is a member of a family of heparin-binding proteins that share sequence, structural, and functional similarity. Other members of this family include midkine (MK), and chicken retinoic acid- induced heparin-binding protein (RI-HB), an avian homologue of MK. The expression of all these cytokines is restricted and highly regulated during development.

Alternative Names

HARP, HB GAM, HBBM, HBGF 8, HBGF8, HBNF, HBNF 1, HBNF1, Heparin binding brain mitogen, NEGF1, OSF 1, Osteoblast specific factor 1, pleiotrophin, PTN

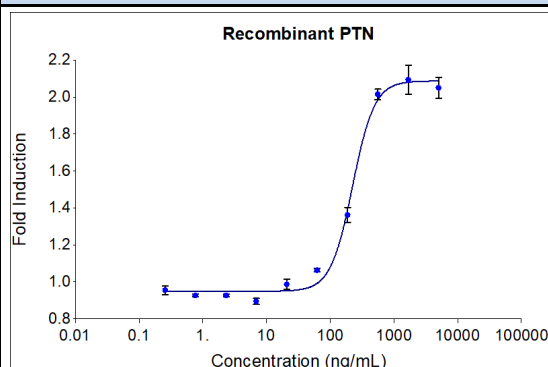
Source

Human Embryonic Kidney cells (HEK293). HEK293-derived Pleiotrophin (PTN) protein

Specifications

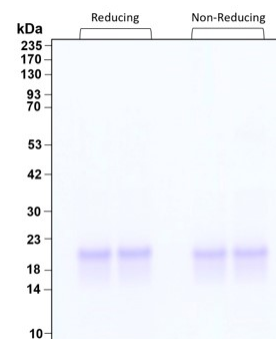
Test	Method	Specification
Activity	Dose-dependent stimulation of proliferation in the THP-1 Monocyte cell line	100-500 ng/mL EC50
Molecular Mass	SDS-PAGE	18-21 kDa reduced, 17 to 20 kDa non-reduced, monomer, non-glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/ µg

Activity Data



Recombinant human PTN (HZ-1278) stimulates dose-dependent proliferation of the THP-1 monocyte cell line. Cell number was quantitatively assessed by PrestoBlue® Cell Viability Reagent. THP-1 cells were treated with increasing concentrations of recombinant PTN for 120 hours. The EC50 range is 100-500 ng/mL.

SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS pH 7.4 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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