

HumanKine® PDGF $\alpha\alpha$ (Recombinant Human)



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

Animal-free Recombinant Human PDGF $\alpha\alpha$ is expressed in human 293 cells as a mixture of pro-dimers, pro-mature and mature dimers with an apparent molecular mass of 35 to 45 kDa. The cytokine is produced in a human cell expression system with serum free, chemically defined media.

Alternative Names

PDGF 1, PDGF A, PDGF subunit A, PDGF1, PDGFA, PDGF $\alpha\alpha$

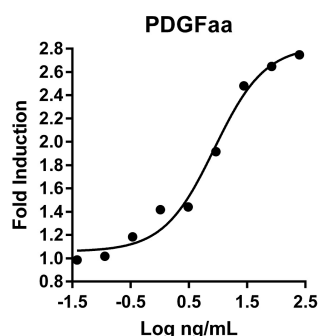
Source

Human Embryonic Kidney cells (HEK293). HEK293-derived PDGF $\alpha\alpha$ protein

Specifications

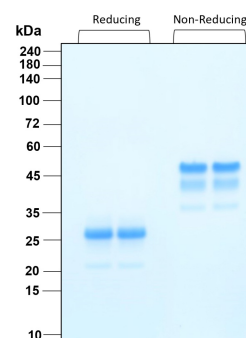
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of 3T3 cells	Typically ≤ 10 ng/mL EC ₅₀
Molecular Mass	SDS-PAGE	19 and 26 reduced, 35, 40 and 45 kDa non-reduced, homodimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/ μ g

Activity Data



Recombinant human PDGF $\alpha\alpha$ (HZ-1215) stimulates dose-dependent proliferation of the NIH/3T3 mouse fibroblast cell line. Viable cell number was quantitatively assessed by Prestoblu[®] Cell Viability Reagent. NIH/3T3 cells were serum starved with 0.1% FBS for 24 hours before treatment with increasing concentrations of recombinant human PDGF $\alpha\alpha$ for 48hrs. The EC₅₀ was determined using a 4-parameter non-linear regression model. The EC₅₀ values are less than 10 ng/mL EC₅₀.

SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	10 mM HOAc, 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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