

HumanKine® FGF-8b (Recombinant Human)



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

Animal-free Recombinant Human FGF-8b is expressed in human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 30 to 45 kDa. This wide molecular mass is due to glycosylation, which is absent when this cytokine is expressed in E. coli. Production in human 293 cells offers authentic glycosylation. Glycosylation contributes to stability in cell growth media and other applications. The cytokine is greater than 95% pure.

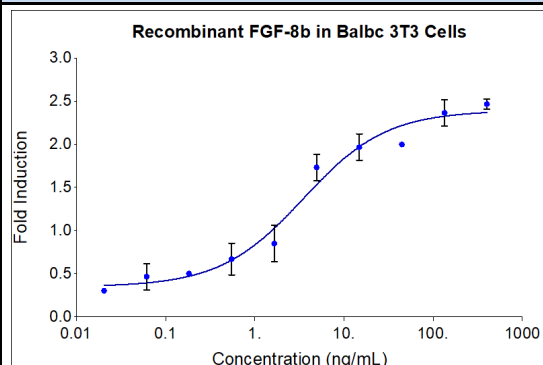
Alternative Names AIGF, Androgen induced growth factor, FGF 8, FGF8, FGF-8b, Fibroblast growth factor 8, HBGF 8, KAL6

Source Human Embryonic Kidney cells (HEK293). HEK293-derived FGF-8b protein

Specifications

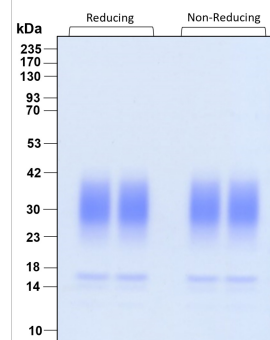
Test	Method	Specification
Activity	Dose-Dependent stimulation of Proliferation in the NIH 3T3 cell line in low serum conditions	10-60 ng/mL EC50 in NIH 3T3 in defined media or 0.7-4 ng/mL EC50 in Balb/c 3T3.
Molecular Mass	SDS-PAGE	30 to 45 kDa reduced and non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/ µg

Activity Data



The activity was determined by the dose-dependent stimulation of the proliferation of the Balb/3T3 cell line using the Promega CellTiter96® Aqueous Non-Radioactive Cell Proliferation Assay.

SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	10 mM Tris-HCl pH 7.4 + 800 mM NaCl, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile water 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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