

HumanKine® recombinant human FGF-4 protein



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

Animal-free Recombinant Human FGF-4 is expressed in human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 17 and 27 kDa. This cytokine is produced in a human cell expression system with serum-free, chemically defined media. Authentic glycosylation contributes to stability in cell growth media and other applications. FGF-4 plays an important physiologically role in the self-renewal of human embryonic stem cells. It also promotes stem cell proliferation. Furthermore, FGF-4 may also aid differentiation which additionally relies on context and concentration.

Alternative Names FGF 4, FGF4, FGF-4, fibroblast growth factor 4, HBGF 4, HST, HST 1, HSTF 1, HSTF1, K FGF, KFGF, KS3, Transforming protein KS3

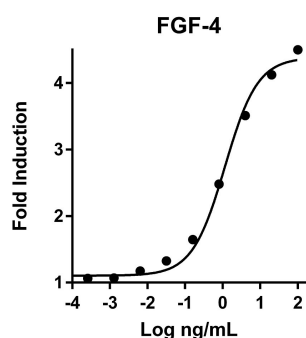
Source Human Embryonic Kidney cells (HEK293). HEK293-derived FGF-4 protein

Species Reactivity human,mouse

Specifications

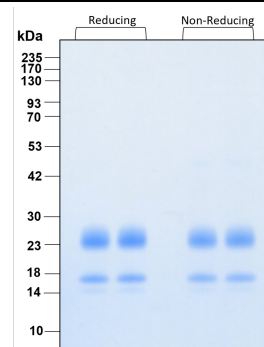
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of the Balb/c 3T3 cell line. Dose-Dependent Proliferation of the NIH3T3 cell line in defined media	≤ 1.25 ng/mL in Balb/c 3T3 cells. 6-30 ng/mL in NIH 3T3 cells in defined media
Molecular Mass	SDS-PAGE	17 and 27 kDa reduced 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	1x PBS, 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. 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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Proteintech Group, Inc.
5500 Pearl Street, Suite 400 Rosemont, IL 60612
t: 1-888-478-4522; f: 1-312-455-8408
Email: proteintech@ptglab.com