

## HumanKine® FGF-4 (Recombinant Human)



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 physiological 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

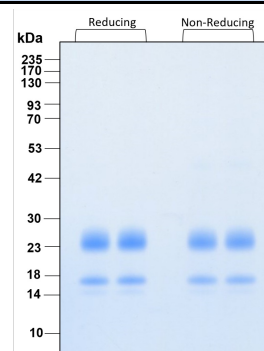
### Specifications

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 EC50 in Balb/c 3T3 cells. 6-30 ng/mL EC50 in NIH 3T3 cells in defined media
Molecular Mass	SDS-PAGE	17 and 27 kDa, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

### Activity Data

Recombinant human FGF-4 (HZ-1218) stimulates dose-dependent proliferation of the NIH/3T3 mouse fibroblast cell line. Viable cell number was quantitatively assessed by Prestoblu e Cell Viability Reagent. NIH/3T3 cells were serum starved with 0.02% FBS during treatment with increasing concentrations of recombinant human FGF-4 for 72hrs in defined medium. The EC50 was determined using a 4-parameter non-linear regression model. The EC50 values range from 6-30ng/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 1x PBS pH 7.4.

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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