

HumanKine[®] recombinant human FGF-7 (KGF) protein



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

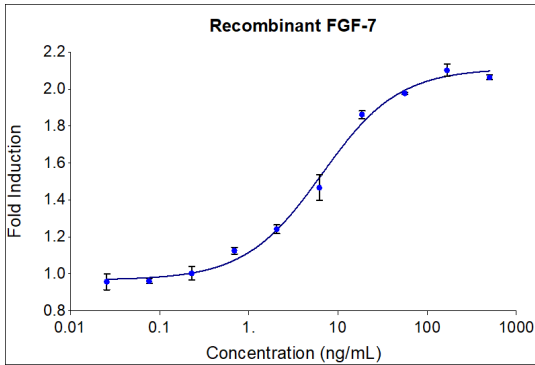
Animal-free Recombinant Human FGF-7 (KGF) is expressed in human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 17 and 30 kDa. FGF-7 appears to act on epithelial cells. It also seems to motivate and stimulate proliferation, migration, and differentiation of these cells. It plays a significant role in development, morphogenesis, wound healing, angiogenesis, and tumorigenesis. 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.

Alternative Names	FGF 7, FGF7, FGF-7, Fibroblast growth factor 7, HBGF 7, Keratinocyte growth factor, KGF
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived FGF-7 (KGF) protein
Species Reactivity	human, monkey

Specifications

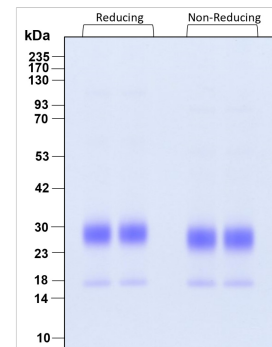
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of 4MBr-5 cells (monkey epithelial cell line).	4-20 ng/mL
Molecular Mass	SDS-PAGE	17 and 25 to 30 kDa reduced, 17 and 24 to 29 kDa non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

Activity Data



Recombinant human FGF-7 (HZ-1100) Stimulates dose-dependent proliferation of the 4MBr-5 Monkey epithelial cell line. Viable cell number was quantitatively assessed by PrestoBlue Cell Viability Reagent. 4MBr-5 cells were treated with increasing concentrations of recombinant human FGF-7 for 120 hours. The EC₅₀ was determined using a 4-parameter non-linear

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 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). 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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