

HumanKine® FGF-10 Heat Stable (Recombinant Human)



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

Recombinant Human FGF-10 is a highly purified paracrine growth factor optimized for the expansion and structural maturation of complex 3D organoid cultures. By signaling through the FGFR2b receptor, this recombinant protein mimics the native mesenchymal niche to drive the robust proliferation, survival, and long-term self-renewal of epithelial progenitor cells. Essential for recapitulating authentic tissue architecture in vitro, Human FGF-10 actively stimulates localized epithelial budding and branching morphogenesis. It is an indispensable, bioactive media supplement for high-performance branching and glandular models, including distal lung, prostate, mammary, and gastrointestinal organoids.

Alternative Names

KGF2

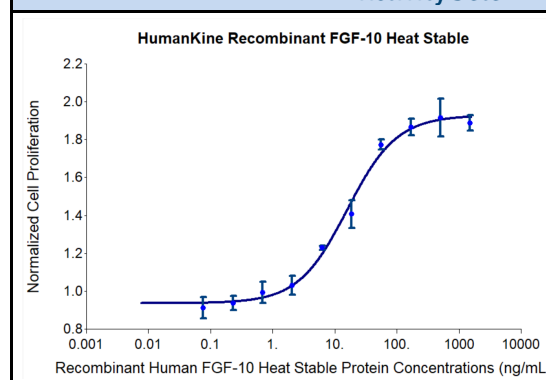
Source

Human Embryonic Kidney cells (HEK293). HEK293-derived FGF-10 Heat Stable protein

Specifications

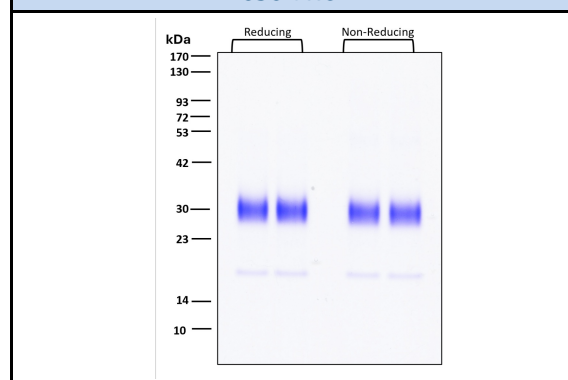
Test	Method	Specification
Activity	Dose-dependent proliferation of the MCF-7 human breast cancer cell line.	5-50 ng/mL
Molecular Mass	SDS-PAGE	16 and 50 kDa reduced, 28 and 50 kDa non-reduced, monomer and homodimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

Activity Data



Recombinant human FGF-10 Heat Stable protein (Cat no: HZ-1344) stimulates dose-dependent proliferation of the MCF-7 human breast cancer cell line in serum free medium. Cell number was quantitatively assessed by PrestoBlue® Cell Viability Reagent. MCF-7 cells were treated with increasing concentrations of recombinant FGF-10 Heat Stable for 96 hours. The EC50 was determined using a 4-

SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	5X 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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Document #: FR-QA118-101 Rev 0
Data Sheet Version #: 1

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