

Recombinant Human KGF/FGF-7

Catalog Number: BT-KGF

		ION

Source E. coli-derived human KGF/FGF-7 protein

Cvs32-Thr194, with an N-terminal Met

Accession # P21781.1

N-terminal Sequence Cys32 & Asn33

Analysis

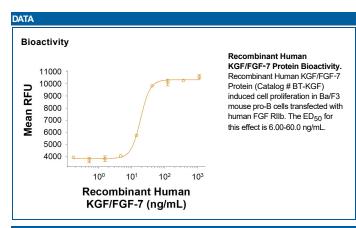
Predicted Molecular

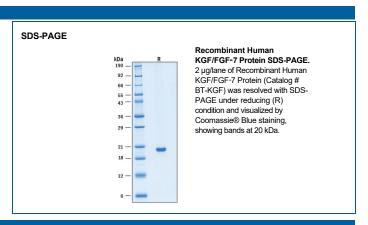
Mass

19 kDa

SPECIFICATIONS		
SDS-PAGE	20 kDa, reducing conditions.	
Activity	Measured in a cell proliferation assay using Ba/F3 mouse pro B cells transfected with human FGF RIIb. The ED ₅₀ for this effect is 6.00-60.0 ng/mL.	
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.	
Purity	>97%, by SDS-PAGE with quantitative densitometry by Coomassie® Blue Staining.	
Formulation	Lyophilized from a 0.2 µm filtered solution in MOPS, Na ₂ SO ₄ and EDTA with Trehalose. See Certificate of Analysis for details.	

PREPARATION AND STORAGE			
Reconstitution	Reconstitute the 20 μg size at 200 μg/mL in water. Reconstitute all other sizes at 500 μg/mL in water.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.		





BACKGROUND

Keratinocyte Growth Factor (KGF), or Fibroblast Growth Factor-7 (FGF-7), is an important component in many cell culture protocols. It is widely used to promote the growth and differentiation of epithelial cells, including skin keratinocytes, and lung, corneal, and intestinal epithelia. It is a part of tissue engineering and organoid culture protocols, where it can enhance the generation of complex tissues such as liver, gastrointestinal tract, lung, and mammary gland. Furthermore, KGF/FGF-7 has been shown to stimulate the proliferation of pancreatic endocrine progenitor cells and promote their differentiation into mature insulin-secreting beta cells. In these capacities KGF/FGF-7 has significant clinical relevance in studies to better understand gastrointestinal disorders, wound healing, respiratory disease, and diabetes.

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