

## GMP KGF/FGF-7 Protein, Human (163a.a)

Cat. No.:	HY-P70597G
Synonyms:	Fibroblast growth factor 7; FGF-7; Heparin-binding growth factor 7; HBGF-7; Keratinocyte growth factor; FGF7; KGF
Species:	Human
Source:	E. coli
Accession:	P21781 (C32-T194)
Gene ID:	2252
Molecular Weight:	15-18 kDa

### PROPERTIES

Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM Tris, 1mM EDTA, 5% Trehalose, 0.02% Tween 80, pH 8.0.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	KGF/FGF-7 Protein assumes a crucial role in orchestrating embryonic development, exhibiting regulatory control over fundamental processes encompassing cell proliferation and differentiation. Its essential contribution extends to the intricate realm of normal branching morphogenesis, where KGF/FGF-7 plays a pivotal role. As a growth factor specifically active on keratinocytes, it emerges as a potential major paracrine effector governing normal epithelial cell proliferation. The protein establishes key interactions, forming complexes with FGFBP1 and FGFR2, and its binding affinity with fibroblast growth factors (FGFs) and their receptors is augmented by heparan sulfate glycosaminoglycans, acting as critical coreceptors in these molecular interactions.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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