

KGF/FGF-7 Protein, Mouse (Tag free)

Cat. No.:	HY-P7176
Synonyms:	rMuFGF-7; HBGF-7; KGF
Species:	Mouse
Source:	E. coli
Accession:	P36363 (C32-T194)
Gene ID:	14178
Molecular Weight:	Approximately 18.7 kDa

PROPERTIES

AA Sequence	<p>C N D M S P E Q T A T S V N C S S P E R H T R S Y D Y M E G G D I R V R R L F C</p> <p>R T Q W Y L R I D K R G K V K G T Q E M K N S Y N I M E I R T V A V G I V A I K</p> <p>G V E S E Y Y L A M N K E G K L Y A K K E C N E D C N F K E L I L E N H Y N T Y</p> <p>A S A K W T H S G G E M F V A L N Q K G I P V K G K K T K K E Q K T A H F L P M</p> <p>A I T</p>
Biological Activity	The ED ₅₀ is ≤10 ng/mL as measured by 4MBr-5 cells, corresponding to a specific activity of ≥1 × 10 ⁵ units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in PBS. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	Fibroblast growth factor-7 (FGF-7) is a potent mitogen that enhances cell proliferation in various organs, including the skin, intestine, breast, liver, and lung ^[1] . FGF-7, also known as keratinocyte growth factor, insofar as it displays a unique cell specificity. FGF7 binds to perlecan protein core and that exogenous perlecan efficiently reconstitutes FGF7 mitogenic activity in perlecan-deficient cells ^[2] .
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REFERENCES

- [1]. Tichelaar JW, et al. Conditional expression of fibroblast growth factor-7 in the developing and mature lung. J Biol Chem. 2000 Apr 21;275(16):11858-64.
- [2]. Mongiat M, et al. The protein core of the proteoglycan perlecan binds specifically to fibroblast growth factor-7. J Biol Chem. 2000 Mar 10;275(10):7095-100.
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Caution: Product has not been fully validated for medical applications. For research use only.

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