

KGF-2/FGF-10 Protein, Mouse

Cat. No.:	HY-P7170
Synonyms:	rMuFGF-10; Keratinocyte growth factor-2; Fgf10
Species:	Mouse
Source:	E. coli
Accession:	O35565 (S62-T209)
Gene ID:	14165
Molecular Weight:	Approximately 17 kDa

PROPERTIES

AA Sequence	<p> S S A G R H V R S Y N H L Q G D V R W R R L F S F T K Y F L T I E K N G K V S G T K N E D C P Y S V L E I T S V E I G V V A V K A I N S N Y Y L A M N K K G K L Y G S K E F N N D C K L K E R I E E N G Y N T Y A S F N W Q H N G R Q M Y V A L N G K G A P R R G Q K T R R K N T S A H F L P M T I Q T </p>
Biological Activity	Measured in a cell proliferation assay using 4MBr-5 rhesus monkey epithelial cells. The ED ₅₀ this effect is <85 ng/mL, corresponding to a specific activity is >1.0 × 10 ⁴ units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS or 20 mM PB, 800 mM NaCl, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
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 ddH ₂ O. 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	<p>Mature mouse Fibroblast Growth Factor-10 (FGF10) shares 94% and 100% amino acid sequence identity with human and rat FGF10, respectively. The mitogenic and chemotactic properties of FGF10 are critical in many tissues during embryogenesis. FGF10 induces signaling through FGF R2 (IIIb) also contributes to the progression of pancreatic cancer^[1]. FGF10 is a paracrine signaling molecule and is involved in the branching of morphogenesis in multiple organs such as the lungs, skin, ear and salivary glands^[2].</p>
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REFERENCES

[1]. Nomura S, et al. FGF10/FGFR2 signal induces cell migration and invasion in pancreatic cancer. Br J Cancer. 2008 Jul 22;99(2):305-13.

[2]. Bagai S, et al. Fibroblast growth factor-10 is a mitogen for urothelial cells. J Biol Chem. 2002 Jun 28;277(26):23828-37.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA