Recombinant Mouse Fgf7 protein

Cat. No. Fgf7-649M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fgf7 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	163
Description	Murine KGF-1 also known as Fibroblast growth factor 7 (FGF-7), is encoded by the FGF7 gene. KGF-1 only binds to the b splice form of the tyrosine kinase receptor, FGFR2b/KGFR. Affinity between KGF-1 and its receptor can be increased by heparin or heparan sulfate proteoglycan. FGF-10, also called keratinocyte growth factor 2 (KGF-2), shares 51 % amino acid sequence identity and similar function to KGF-1, but uses an additional receptor, FGFR2c. KGF-1 plays an important role in the regulation of embryonic development, cell proliferation and cell differentiation. KGF-1 actives on keratinocytes, and exhibits mitogenic activity for epidermal cells, but essentially no activity for fibroblasts. KGF-1 has species crossactive, murine KGF-1 shares 96 % amino acid sequence identity with human and rat.
Form	Lyophilized from a 0.2μm filtered solution in 20 mM PB, pH 8.0, 1 M NaCl.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 10 ng/ml, corresponding to a specific activity of > 1.0×10^5 IU/mg.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	Approximately 18.7 kDa, a single, non-glycosylated polypeptide chain containing 163 amino acids.
AA Sequence	CNDMSPEQTATSVNCSSPERHTRSYDYMEGGDIRVRRLFCRTQWYLRIDKRGKVK GTQEMKNSYNIMEIRTVAVGIVAIKGVESEYYLAMNKEGKLYAKKECNEDCNFKELIL ENHYNTYASAKWTHSGGEMFVALNQKGIPVKGKKTKKEQKTAHFLPMAIT
Endotoxin	Less than 1 EU/μg of rMuKGF-1/FGF-7 as determined by LAL method.
Purity	>96% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Fgf7
Official Symbol	Fgf7
Synonyms	FGF7; fibroblast growth factor 7; FGF-7; HBGF-7; Keratinocyte growth factor; heparin-binding growth factor 7; Kgf;

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Gene ID	14178
mRNA Refseq	NM_008008
Protein Refseq	NP_032034
UniProt ID	P36363

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