

Active Recombinant Mouse Fgf7 Protein (163 aa)

Cat. No. Fgf7-344F Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Keratinocyte Growth Factor (rmKGF) produced in E. coli is a single non-glycosylated polypeptide chain containing 163 amino acids. A fully biologically active molecule, rmKGF has a molecular mass of 18.7 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Mouse
Source	E.coli
ProteinLength	163
Description	Keratinocyte Growth Factor (KGF) is a highly specific epithelial mitogen produced by fibroblasts and mesenchymal stem cells. KGF belongs to the heparin binding Fibroblast Growth Factor (FGF) family, and is known as FGF-7. However, in contrast to FGF-1, which binds to all known FGF receptors with high affinity, KGF only binds to a splice variant of the FGF receptor, FGFR2-IIIb. FGFR2-IIIb is expressed by most epithelial cells, indicating KGF's role as a paracrine mediator. KGF induces the differentiation and proliferation of various epithelial cells such as keratinocytes in the epidermis, hair follicles and sebaceous glands., KGF is also responsible for wound repair of various tissues including lung, bladder, and kidney.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 2 ng/mL, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a specific activity of > 5.0 × 10 ⁵ units/mg.

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Molecular Mass	18.7 kDa, observed by reducing SDS-PAGE.
AA Sequence	CNDMSPEQTATSVNCSSPERHTRSVDYMEGGDIRVRRLLFCRTQWYLRIKRGKVK GTQEMKNSYNIMEIRTVAVGIVAIGVESEYYLAMNKEGKLYAKKECNEDCNFKELIL ENHYNTYASAKWTHSGGEMFVALNQKGIPVKGKTKKEQKTAHFLPMAIT
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant mouse Keratinocyte Growth Factor (rmKGF) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmKGF remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Fgf7 fibroblast growth factor 7 [Mus musculus]
Official Symbol	Fgf7
Synonyms	FGF7; fibroblast growth factor 7; FGF-7; HBGF-7; Keratinocyte growth factor; heparin-binding growth factor 7; Kgf;
Gene ID	14178
mRNA Refseq	NM_008008

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Protein Refseq	NP_032034
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UniProt ID	P36363
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