

Datasheet for ABIN2018176 **FGF7 Protein (AA 32-194)**



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Overview

Quantity:	50 µg
Target:	FGF7
Protein Characteristics:	AA 32-194
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 2 ng/mL, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a specific activity of > 5.0x 10 ⁵ units/mg.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	FGF7
Alternative Name:	Keratinocyte Growth Factor (KGF) (FGF7 Products)
Background:	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-

Target Details

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. 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.

Synonyms: Fibroblast Growth Factor-7, HBGF-7

Molecular Weight:	18.7 kDa, observed by reducing SDS-PAGE.
UniProt:	P36363
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in PBS at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant mouse Keratinocyte Growth Factor (rmKGF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmKGF remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months