Datasheet for ABIN2018181

FGF7 Protein (AA 32-194)

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Overview

Quantity:	50 µg
Target:	FGF7
Protein Characteristics:	AA 32-194
Origin:	Human
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. AA 32-194, expressed with an N-terminal Met.
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/FGF-7) (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 the FGF-1, which binds to all

Target Details

	known FGF receptors with high affinity, KGF only binds to a splice variant of an FGF receptor, FGFR2-IIIb. FGFR2-IIIb is produced by most of the epithelial cells, indicating that KGF plays roles as a paracrine mediator. KGF induces the differen-tiation and proliferation of various epithelial cells, including keratinocytes in the epidermis, hair follicles and sebaceous glands, and is responsible for the wound repairs of various tissues, including lung, bladder, and kidney. Recombinant human Keratinocyte Growth Factor (rhKGF) produced in E. coli is a single non-glycosylated polypeptide chain containing 164 amino acids. A fully biologically active molecule, rhKGF has a molecular mass of 19.0 kDa analyzed by reducing SDS-PAGE. Synonyms: Keratinocyte Growth Factor, Fibroblast Growth Factor-7, HBGF-7, FGF-7
Molecular Weight:	19.0 kDa, observed by reducing SDS-PAGE.
UniProt:	P21781
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant human Keratinocyte Growth Factor (rhKGF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhKGF should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months