

Recombinant Human FGF7, His-tagged

Cat. No. FGF7-28410TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature Human KGF with His tag at N terminal produced in the endosperm tissue of barley grain ;180 amino acids with tag, Predicted MWt 21.2 kDa.
Species	Human
Description	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein is a potent epithelial cell-specific growth factor, whose mitogenic activity is predominantly exhibited in keratinocytes but not in fibroblasts and endothelial cells. Studies of mouse and rat homologs of this gene implicated roles in morphogenesis of epithelium, reepithelialization of wounds, hair development and early lung organogenesis.
Conjugation	HIS
Tissue specificity	Epithelial cell.
Biological activity	Bioactivity is assayed by measuring the dose dependent effect of Human KGF on proliferation of Mouse BaF3 transfected with FGF3 receptor. The ED50 for this batch is 5.6 ng/ml corresponding to specific activity of 0.15 x 10 ⁶ U/mg.
Form	Lyophilised:Reconstitute the lyophilized protein in sterile water to a concentration of

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	no less than 100 µg/ml. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: PBS, pH 7.2
Storage	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C.
Sequence Similarities	Belongs to the heparin-binding growth factors family.
Full Length	Full L.

GENE INFORMATION

Gene Name	FGF7 fibroblast growth factor 7 [Homo sapiens]
Official Symbol	FGF7
Synonyms	FGF7; fibroblast growth factor 7; fibroblast growth factor 7 (keratinocyte growth factor); keratinocyte growth factor; KGF;
Gene ID	2252
mRNA Refseq	NM_002009
Protein Refseq	NP_002000
MIM	148180

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Uniprot ID	P21781
Chromosome Location	15q21.2
Pathway	Downstream signaling of activated FGFR, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FGFR2 ligand binding and activation, organism-specific biosystem; FGFR2b ligand binding and activation, organism-specific biosystem; FRS2-mediated cascade, organism-specific biosystem;
Function	chemoattractant activity; growth factor activity; heparin binding; type 2 fibroblast growth factor receptor binding;

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