

Active Recombinant Human FGF7

Cat. No. FGF7-512H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human KGF/FGF-7 Protein, HEK293 Expressed (rhFGF7), Cys32-Thr194(Accession# NP_002000.1).was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	32-194 a.a.
Description	Fibroblast Growth Factor 7 (FGF7), also known as Keratinocyte Growth Factor (KGF), is a paracrine-acting, epithelial mitogen produced by cells of mesenchymal origin. It is a member of the fibroblast growth factor (FGF) family, and acts exclusively through a subset of FGF receptor isoforms (FGFR2b) expressed predominantly by epithelial cells. FGF7 is a potent epithelial cell-specific growth factor, whose mitogenic activity is predominantly exhibited in keratinocytes but not in fibroblasts and endothelial cells. Clinical trials in patients with solid tumors are performed to assess the potential benefits of using KGF to protect normal tissue from the adverse effects of chemoradiotherapy and its possible impact on clinical outcome. Researcher also found that recombinant human keratinocyte growth factor palifermin reduces oral mucositis and improves patient outcomes after stem cell transplant.
Predicted N Terminal	Cys32
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.

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Bio-activity	The bio-activity was determined by dose-dependent stimulation of the proliferation of BaF3 cells. The ED ₅₀ < 10 ng/ml, corresponding to a specific activity of > 1 × 10 ⁵ Unit/mg.
Molecular Mass	rhFGF7 contains no "Tags" and has a calculated MW of 18.9 kDa. DTT-reduced protein migrates as 26 kDa protein due to different glycosylation.
Endotoxin	Less than 1.0 EU per µg of the or rhFGF7 by the LAL method.
Purity	>95% purity as determined by SDS-PAGE of reduced rhFGF-7.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4 centigrade-8 centigrade); After reconstitution under sterile conditions for 1 month (4 centigrade-8 centigrade) or 3 months (-20 centigrade to -70 centigrade).

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; FGF-7; heparin-binding growth factor 7; HBGF-7;
Gene ID	2252
mRNA Refseq	NM_002009
Protein Refseq	NP_002000

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MIM	148180
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; Glypican 3 network, organism-specific biosystem; IRS-mediated signalling, organism-specific biosystem;
Function	chemoattractant activity; growth factor activity; heparin binding; type 2 fibroblast growth factor receptor binding;

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