

Active Recombinant Rat Fibroblast Growth Factor 7

Cat. No. Fgf7-372R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Fibroblast Growth Factor 7 was expressed in <i>E. Coli</i> . MW=17 kDa.
Species	Rat
Source	E.coli
Description	Keratinocyte growth factor is a protein that in humans is encoded by the FGF7 gene. 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.
Purity	Purity > 90%. Purified by heparin affinity chromatography.
Activity	The activity of rat FGF-7 at 1-10 ng/ml is determined by tritiated thymidine incorporation using cultured mouse keratinocytes. Maximum stimulation observed at 1 ng/ml. The optimal concentration of this product for use with other cell types must be determined by the end user.
Specificity	45102 binds to keratinocytes and most parenchymal epithelial cells; binds specific splice variant of FGF receptor expressed in epithelial cells (FGFr2IIIb).
Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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at 280 nm. 2. Analysis by RP-HPLC, using a calibrated solution of IGF-II as a Reference Standard.

Storage

This product is stable for at least one year at -20°C to -70°C. Keep frozen until use. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name

Fgf7 fibroblast growth factor 7 [*Rattus norvegicus*]

Synonyms

Fgf7; fibroblast growth factor 7; Kgf; fibroblast growth factor 7; FGF-7; HBGF-7; keratinocyte growth factor; heparin-binding growth factor 7

Gene ID

29348

mRNA Refseq

NM_022182

Protein Refseq

NP_071518

UniProt ID

Q02195

Chromosome Location

3q36

Pathway

MAPK signaling pathway; Melanoma; Pathways in cancer; Regulation of actin cytoskeleton

Function

chemoattractant activity; growth factor activity; heparin binding; protein binding; type 2 fibroblast growth factor receptor binding

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