Bioactive

FGF7 (Human) Recombinant Protein

Catalog # P3645 Size 10 ug

Specification

Product Description	Human FGF7 (P21781, 32 a.a. - 194 a.a.) partial recombinant protein expressed in *Escherichia coli* .
Sequence	CNDMTPEQMATNVNCSSPERHTRSYDYMEGGDIRVRRLFCRTQWYLRIDKRGKVKGTQEMKNNY NIMEIRTVAVGIVAIKGVESEFYLAMNKEGKLYAKKECNEDCNFKELILENHYNTYASAKWTHNGGE MFVALNQKGIPVRGKKTKKEQKTAHFLPMAIT
Host	Escherichia coli
Theoretical MW (kDa)	19
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED_{50} was determined by the dose-dependent proliferation of BAF3 cells was found to be less th an 10 ng/mL.
Storage Buffer	Lyophilized from 1M NaCl, 20mM PB, pH 8.0
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

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- SDS-PAGE

Gene Info — FGF7

Entrez GeneID	2252
Protein Accession#	P21781
Gene Name	FGF7
Gene Alias	HBGF-7, KGF
Gene Description	fibroblast growth factor 7 (keratinocyte growth factor)
Omim ID	148180
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	fibroblast growth factor 7|heparin-binding growth factor 7|keratinocyte growth factor

Pathway

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

Disease

- Cleft Lip
- Cleft Palate

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