Bioactive

FGF7 (Human) Recombinant Protein

Catalog # P7386 Size 5 ug

Specification

Product Description	Human FGF7 (P21781, 32 a.a. - 194 a.a.) partial recombinant protein expressed in CHO cells.
Sequence	CNDMTPEQMATNVNCSSPERHTRSYDYMEGGDIRVRRLFCRTQWYLRIDKRGKVKGTQEMKNNY NIMEIRTVAVGIVAIKGVESEFYLAMNKEGKLYAKKECNEDCNFKELILENHYNTYASAKWTHNGGE MFVALNQKGIPVRGKKTKKEQKTAHFLPMAIT
Host	Mammals
Theoretical MW (kDa)	16 ~ 18
Form	Lyophilized
Preparation Method	_x005F_x000D__x000D_ Mammalian cell (CHO) expression system_x005F_x000D__x000D_
Purity	> 95% as analyzed by SDS-PAGE. > 95% as analyzed by HPLC.
Endotoxin Level	< 0.2 EU/ ug of protein (gel clotting method)
Activity	ED_{50} < 1.0 ng/mL, measured in a proliferation assay using 4MBr5 cells.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS. Reconstitute the lyophilized powder in ddH_2O up to 100 ug/mL.
Storage Instruction	Store at 4°C for 1 week. For long term storage store at -20°C to -80°C. 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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