Bioactive

FGF7 (Human) Recombinant protein

Catalog # P8860 Size 2 x 10 ug

Specification

Product Description	Human FGF7 (P21781) recombinant protein expressed in *Escherichia Coli*.
Sequence	MCNDMTPEQM ATNVNCSSPE RHTRSYDYME GGDIRVRRLF CRTQWYLRID KRGKVKGTQE M KNNYNIMEI RTVAVGIVAI KGVESEFYLA MNKEGKLYAK KECNEDCNFK ELILENHYNT YASAKW THNG GEMFVALNQK GIPVRGKKTK KEQKTAHFLP MAIT.
Host	Escherichia coli
Theoretical MW (kDa)	18.995
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 96% by SDS-PAGE. > 96% by RP-HPLC.
Activity	The biological activity was determined by the dose-dependent stimulation of thymidine uptake by Ba F3 cells expressing KGF receptors yielding an ED_{50} < 10 ng/mL, corresponding to a Specific Activit y of 1.0 × 10^5 IU/mg.
Storage Buffer	Lyophilized from 20mM PB, pH 8.0, 1M NaCl
Storage Instruction	Lyophilized although stable at room temperature for 3 weeks. should be stored desiccated below -20 °C. Upon reconstitution should be stored at 4°C between 2-7 days and for future use below -20°C. F or long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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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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