

Recombinant Human Fibroblast Growth Factor 5

Cat. No. FGF5-172H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This recombinant human FGF-5 is a 27.6 kDa protein containing 252 amino acid residues and it was expressed in <i>E. Coli</i> .
Species	Human
Source	E.coli
Description	Fibroblast Growth Factor-5 (FGF-5) , is a heparin binding growth factor that stimulates the proliferation and activation of cells that express FGF receptors.
Supplied	Sterile filtered and the the protein was lyophilized from 2X PBS pH7.2(no additives).
Purity	>95% by SDS-Page and HPLC analyses. Endotoxin level is less than 0.1ng per ug (1EU/ug) of FGF-5.
Reconstitution	The lyophilized FGF-5 should be reconstituted in 1X PBS pH7.2 to a concentration of 1ug/ul (1mg/ml). Allow to set at least 30 minutes at 4°C, tighten cap and rotate to reconstitute any material on sides of vial. If desired, you can centrifuge at 1000 rpm for 1 minute to concentrate volume in bottom of vial. This solution can be diluted into water or other buffered solutions or stored at 4°C for up to 1 week or stored at - 20°C for future use. For most in-vitro applications, human FGF-5 exerts its biological activity in the concentration range of 0.1 to 20ng/ml.
Note	If this material is not to be used for coating or labeling(or other applications requiring carrier free material), the addition of 0.1% BSA to dilution buffers or dilution in sterile

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culture media is recommended to enhance stability and minimize absorption to vial. Ideally, maintain concentration >50ug/ml.

Reactivity

The biological activity was determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors yielding an ED50 <1ng/ml, corresponding to a specific activity of >1 X 10⁶ (1 million) units/mg.

Amino Acid Sequence

MAWAHGEKRL APKGQPGPAA TDRNPIGSSS RQSSSSAMSS SSASSSPAASL
GSQGSGLEQS SFQWSPSGR RTGSLYCRVG IGFHLQIYPDQ KVNGSHEANM
LSVLEIFAVSQ GIVGIRGVFSN KFLAMSKKGK LHASAKFTDD CKFRERFQEN
SYNTYASAIHR TEKTGREWYV ALNKRKGAKR GCSPRVKPDH ISTHFLPRFK
QSEQPE LSFTV TVPEK KNPPSP IKSK IPLSAPRKNT NSVKYRLKFRFG

Storage

The lyophilized powder is stable at room temperature but it is best stored desiccated below 0°C. Reconstituted human FGF-5 should be stored in working aliquots at -20°C.

GENE INFORMATION

Gene Name

FGF5 fibroblast growth factor 5 [Homo sapiens]

Synonyms

FGF5; fibroblast growth factor 5; HBGF-5; Smag-82; heparin-binding growth factor 5; FGF-5; Heparin-binding growth factor 5

Gene ID

2250

mRNA Refseq

NM_004464

Protein Refseq

NP_004455

MIM

165190

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UniProt ID	P12034
Chromosome Location	4q21
Pathway	MAPK signaling pathway; Melanoma; Pathways in cancer; Regulation of actin cytoskeleton
Function	growth factor activity

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