Recombinant Human Fibroblast Growth Factor 18

Cat. No. FGF18-171H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This recombinant human FGF-18 is a 21.2 kDa protein containing 182 amino acid residues and it was expressed in*E.Coli.*
Species	Human
Source	E.coli
Description	Fibroblast Growth Factor-18 (FGF-18) 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 10mM Tris, pH8.0 (no additives).
Purity	>95% by SDS-Page and HPLC analyses. Endotoxin level is less than 0.1ng per ug (1EU/ug) of FGF-18.
Reconstitution	The lyophilized FGF-18 should be reconstituted in 5mM TRIS, pH8.0 to a concentration of 0.1-1.0mg.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 and stored at 4°Cfor up to 1 week or stored at – 20℃ for future use. For most in-vitro applications, human FGF-18 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

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	carrier free material), the addition of 0.1% BSA to dilution buffers or dilution in sterile culture media is recommended to enhance stability and minimize absorption to vial. Ideally, maintain concentration greater than 10ug/ml.
Reactivity	The biological activity was determined by the does- dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors yielding an ED50 <0.5ng/ml, corresponding to a specific activity of >1 X 106 (1 million) units/mg.
Amino Acid Sequence	MAEENVDFRI HVENQTRARD DVSRKQLRLY QLYSRTSGKH IQVLGRRISA RGEDGDKYAQ LLVETDTFGS QVRIKGKETE FYLCMNRKGK LVGKPDGTSK ECVFIEKVLE NNYTALMSAK YSGWYVGFTK KGRPRKGPKT RENQQDVHFM KRYPKGQPE LQKPFKYTTV TKRSRRIRP THPAAHFIKR LYQGQLPFP NHAEKQKQFE FVGSAPTRRTK RTRR PQPLT
Storage	The lyophilized powder is stable at room temperature for a few weeks but it is best stored desiccated at -20℃. Reconstituted human FGF-18 should be stored in working aliquots at -20℃.

GENE INFORMATION

Gene Name	FGF18 fibroblast growth factor 18 [Homo sapiens]
Synonyms	FGF18; fibroblast growth factor 18; ZFGF5; FGF-18; FGF-18; zFGF5
Gene ID	8817
mRNA Refseq	NM_003862
Protein Refseq	NP_003853
MIM	603726

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UniProt ID	O76093
Chromosome Location	5q34
Pathway	MAPK signaling pathway; Melanoma; Pathways in cancer; Regulation of actin cytoskeleton
Function	growth factor activity

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