

Recombinant Human Fibroblast Growth Factor 6

Cat. No. FGF6-176H Lot. No. (See product label)

SPECIFICATION

Product Overview	This recombinant human FGF-6 is a 18.7 kDa protein containing 168 amino acid residues and this protein expressed in <i>E.Coli</i> .
Species	Human
Source	E.coli
Description	Fibroblast Growth Factor-6 (FGF-6) is a newly discovered 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 pH 7.4 + 100mM NaCl. (no additives).
Purity	>95% by SDS-Page and HPLC analyses. Endotoxin level is less than 0.1ng per ug (1EU/ug) of FGF-6.
Reconstitution	The lyophilized FGF-6 should be reconstituted in water to a concentration of 0.5-1mg/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-6 exerts its biological activity in the concentration range of 0.1 to 20.0 ng/ml.

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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 culture media is recommended to enhance stability and minimize absorption to vial. Ideally, maintain concentration <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 10 ⁶ (1 million) units/mg.
Amino Acid Sequence	MGTRANNTLL DSRGWGTLLS RSRAGLAGEI AGVNWESGYL VGIKRQRRLY CNVGIGFHLQ VLPDGRISGT HEENPYSLL EISTVERGVVS LFGVRSALFV AMNSKGRLYA TPSFQEECKF RETLLPNNYN AYESDLYQGT YIALSKYGRV KRGSKVSPIM TVTHFLPRI
Storage	The lyophilized powder is stable at room temperature for a few weeks but it is best stored desiccated below 0°C. Reconstituted human FGF-6 should be stored in working aliquots at -20°C.

GENE INFORMATION

Gene Name	FGF6 fibroblast growth factor 6 [Homo sapiens]
Synonyms	FGF6; HBGF-6; HST2; fibroblast growth factor 6; HST-2; Heparin-binding growth factor 6
Gene ID	2251
mRNA Refseq	NM_020996
Protein Refseq	NP_066276

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MIM	134921
UniProt ID	P10767
Chromosome Location	12p13
Pathway	MAPK signaling pathway; Melanoma; Pathways in cancer; Regulation of actin cytoskeleton
Function	growth factor activity

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