

Active Recombinant Human FGF5 Protein

Cat. No. FGF5-89H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF5 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Fibroblast growth factor 5 (FGF-5) is a secreted heparin-binding growth factor that binds to FGF receptors 1 and 2 (FGFR1 and FGFR2). FGF-5 is expressed in the mesenchyme, skeletal muscles, central nervous system, and hair follicles to promote cell differentiation and proliferation. FGF-5 functions as a regulatory factor during hair elongation and skeletal muscle development.
Bio-activity	3T3 Proliferation w 1 ug heparin, ≤ 10 ng/mL; $\geq 1.0 \times 10^5$ units/mg
Molecular Mass	Monomer, 27.7 kDa (252 aa)
AA Sequence	MAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSASSSPAASLGSQG SGLEQSSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVS QGIVGIRGVFSNKFLAMSKKGLHASAKFTDDCKFRERFRQENSYNTYASAIHRTEKT GREWYVALNKRKGAKRGCSPRVKQHIHSTHFLPRFKQSEQPELSFTVTVPEKKNPP SPIKSKIPLSAPRKNTNSVKYRLKFRFG
Endotoxin	≤ 1 EUs/ μ g, Kinetic LAL
Purity	$\geq 95\%$, Reducing and Non-Reducing SDS PAGE

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Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate and 100 mM sodium chloride, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	FGF5 fibroblast growth factor 5 [Homo sapiens (human)]
Official Symbol	FGF5
Synonyms	FGF5; fibroblast growth factor 5; heparin-binding growth factor 5; HBGF-5; Smag-82;
Gene ID	2250
mRNA Refseq	NM_004464
Protein Refseq	NP_004455

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MIM	165190
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UniProt ID	P12034
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