

Active Recombinant Mouse FGF2 Protein

Cat. No. FGF2-83M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse FGF2 Protein without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Basic fibroblast growth factor (FGF-basic), also known as FGF-2, is expressed by endothelial cells and is a mediator of angiogenesis. FGF-basic also has cardioprotective functions during heart injury. The application of FGF-basic is a critical component for human embryonic stem cell culture systems and is necessary for maintaining human embryonic stem cells in an undifferentiated state.
Bio-activity	3T3 cell proliferation, $\leq$ ED50 $\leq$ 2.5 ng/mL
Molecular Mass	Monomer, 16.5 kDa (146 aa)
AA Sequence	MPALPEDGGAAFPFGHFKDPKRLYCKNGGFFLRHPDGRVDGVREKSDPHVKLQL QAEERGVSISIKGVCANRYLAMKEDGRLLASKCVTEECFFFERLESNNYNTYRSRKY SSWYVALKRTGQYKLGSKTGPQGKAILFLPMSAKS
Endotoxin	$\leq$ 1 EUs/ μ g, Kinetic LAL
Purity	$\geq$ 95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied.

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	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, 50 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	Fgf2 fibroblast growth factor 2 [Mus musculus (house mouse)]
Official Symbol	FGF2
Synonyms	FGF2; fibroblast growth factor 2; HBGF-2; basic fibroblast growth factor; heparin-binding growth factor 2; Fgfb; bFGF; Fgf-2;
Gene ID	14173
mRNA Refseq	NM_008006
Protein Refseq	NP_032032

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UniProt ID

P15655

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