

Active Recombinant Rat FGF2 Protein

Cat. No. FGF2-84R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat FGF2 Protein without tag was expressed in E. coli.
Species	Rat
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. FGF-basic binds heparin in order to signal through fibroblast growth factor (FGF) receptor tyrosine kinases.
Bio-activity	3T3 proliferation, ≤ 1 ng/mL
Molecular Mass	Monomer, 16.4 kDa (146 aa)
AA Sequence	MPALPEDGGGAFFPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHVKLQL QAEERGVSISIKGVCANRYLAMKEDGRLLASKCVTEECFFFERLESNNYNTYRSRKY SSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAKS
Endotoxin	≤ 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. 1 month when stored at 4 centigrade after reconstituting as directed.

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	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 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	FGF2
Synonyms	FGF2; fibroblast growth factor 2; HBGF-2; basic fibroblast growth factor; heparin-binding growth factor 2; bFGF; Fgf-2;
Gene ID	54250
mRNA Refseq	NM_019305
Protein Refseq	NP_062178

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