

## Active Recombinant Mouse Fgf2 Protein

Cat. No. Fgf2-7206M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Fibroblast Growth Factor-2 without tag was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Acts as a ligand for FGFR1, FGFR2, FGFR3 and FGFR4. Also acts as an integrin ligand which is required for FGF2 signaling. Binds to integrin ITGAV:ITGB3. Plays an important role in the regulation of cell survival, cell division, cell differentiation and cell migration. Functions as a potent mitogen in vitro. Can induce angiogenesis. Mediates phosphorylation of ERK1/2 and thereby promotes retinal lens fiber differentiation.
<b>Form</b>	Lyophilized freeze dried protein without additives.
<b>Bio-activity</b>	The activity was determined by the stimulation of HUVE cells. The ED50 for this effect is = 0.1 ng/mL corresponding to a specific activity of = $1 \times 10^7$ units/mg.
<b>Molecular Mass</b>	16.34 kDa
<b>AA Sequence</b>	ALPEDGGAAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHVKLQLQAE ERGVVSIKGVCANRYLAMKEDGRLLASKCVTEECFFFERLESNNYNTYRSRKYSSW YVALKRTGQYKLGSKGPGQKAILFLPMSAKSResultbyN-terminalsequencing:ALPED GGAAF
<b>Endotoxin</b>	< 0.1 ng/μg of Mouse FGF-2

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<b>Purity</b>	> 95 %
<b>Storage</b>	The lyophilized Mouse FGF-2, though stable at room temperature, is best stored in working aliquots at –20 to –70 centigrade. Avoid repeated freeze-thaw cycles
<b>Storage Buffer</b>	PBS without stabilizers
<b>Reconstitution</b>	Restore with ddH <sub>2</sub> O or 50 mM Acetic Acid at 50 µg/mL. This solution can be diluted into other buffered solutions or stored frozen for future use.

## GENE INFORMATION

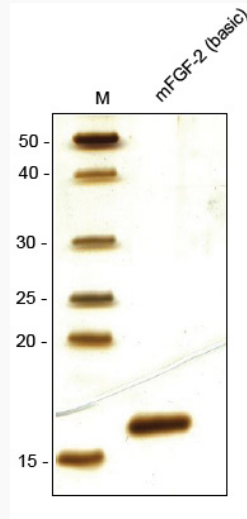
<b>Gene Name</b>	Fgf2 fibroblast growth factor 2 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Fgf2
<b>Synonyms</b>	Fgf2; fibroblast growth factor 2; Fgfb; bFGF; Fgf-2; Fgf2a; fibroblast growth factor 2; HBGF-2; basic fibroblast growth factor; fibroblast growth factor 2a; heparin-binding growth factor 2
<b>Gene ID</b>	14173
<b>mRNA Refseq</b>	NM_008006
<b>Protein Refseq</b>	NP_032032
<b>UniProt ID</b>	P15655

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