

Recombinant Mouse Fibroblast Growth Factor 2

Cat. No. Fgf2-680M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fgf2 is Expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Fgf2 is one of at least 22 mitogenic proteins of the FGF family, which show 35-60% amino acid conservation. Storage pools within the cell or on cell surface Heparan Sulfate Proteoglycans (HSPG) are likely. The predicted 17 kDa Fgf2 isoform can be located in both the cytoplasm and the nucleus and is presumed to be the form secreted. Transcription from alternate start sites produces 21-24 kDa forms found only in the nucleus. High and low molecular weight Human Fgf2 targets the expression of different genes when expressed in NIH-3T3 cells.
Form	Lyophilized from sterile filtered PBS pH 7.4.
Molecular Weight	17 kDa
Purity	> 98% by HPLC and SDS-PAGE
Endotoxin Level	< 0.1 EU/g
Biological Activity	ED ₅₀ , determined by the dose-dependent stimulation of Thymidine uptake by BaF3 cells expressing FGF receptors is < 0.1 ng/mL.

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Specific Activity	1x10 ⁷ Units/mg
Sequences	M PALPEDGG AAFPPGHFKDPKRLYC KNGGFFLR IHPDGRVD GVREKSDP HVKLQLQA EERGVSII KGVCANR YLAMKEDGRLLASKCV TEECFFFE RLESNNYN TYRSRKYS SWYVALKR TGQYKLGK TGPQKAI LFLPMSAK S
Reconstitution	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Further dilutions should be made in appropriate buffered solutions.
Storage	Stable at 2-8°C, but should be kept desiccated -20°C. Upon reconstitution, stable for up to 1 week at 2-8°C. For maximal stability, store in working aliquots below -20°C. Avoid repeated freeze/thaw cycles.
Official Symbol	Fgf2

GENE INFORMATION

Gene Name	Fgf2 fibroblast growth factor 2 [Mus musculus]
Synonyms	Fgf2; fibroblast growth factor 2; Fgfb; bFGF; Fgf-2; heparin-binding growth factor 2; HBGF-2; OTTMUSP00000046776; OTTMUSP00000047630; basic fibroblast growth factor
Gene ID	14173
mRNA Refseq	NM_008006
Protein Refseq	NP_032032

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UniProt ID	P15655
Chromosome Location	3 19.3 cM
Pathway	Downstream signaling of activated FGFR; ESC Pluripotency Pathways; Endochondral Ossification; FGFR ligand binding and activation; FRS2-mediated cascade; IRS-mediated signalling; IRS-related events; Insulin receptor signalling cascade; MAPK signaling pathway; Melanoma; MicroRNAs in cardiomyocyte hypertrophy; PI-3K cascade; Pathways in cancer; Phospholipase C-mediated cascade
Function	chemoattractant activity; cytokine activity; fibroblast growth factor binding; fibroblast growth factor receptor binding; growth factor activity; heparin binding; ligand-dependent nuclear receptor transcription coactivator activity; protein binding; voltage-gated calcium channel activity
PDB rendering based on 1bas.	

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