

Recombinant Mouse Fgf2 Protein

Cat. No. Fgf2-13M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse FGF-2 (bFGF) protein without tag was expressed in E. coli. Animal-free (AOF) and carrier protein-free. Mass spectrometry: single species with expected mass. Recovery from stock vial: >95%
Species	Mouse
Source	E.coli
Description	Enables growth factor activity. Involved in stem cell development. Acts upstream of or within several processes, including animal organ development; positive regulation of macromolecule metabolic process; and positive regulation of signal transduction. Located in extracellular space. Is expressed in several structures, including alimentary system; central nervous system; extraembryonic component; genitourinary system; and sensory organ. Human ortholog(s) of this gene implicated in several diseases, including Parkinsonism; corneal neovascularization; diabetic neuropathy; gastric ulcer; and impotence. Orthologous to human FGF2 (fibroblast growth factor 2).
Molecular Mass	16 kDa
Endotoxin	<0.005 EU/μg protein (below level of detection)
Applications	Differentiation of human pluripotent Stem cells towards extra-embryonic endoderm, mesenchymal, neural lineages, and chondrocytes

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Storage	Prepare single use aliquots, add carrier protein if desired, store frozen at -20 or -80 centigrade
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Storage Buffer	Frozen in PBS
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GENE INFORMATION

Gene Name	Fgf2 fibroblast growth factor 2 [Mus musculus (house mouse)]
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Official Symbol	Fgf2
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Synonyms	FGF2; fibroblast growth factor 2; BFGF; FGF-2; HBGF-2; fibroblast growth factor 2; basic fibroblast growth factor; fibroblast growth factor 2 (basic); heparin-binding growth factor 2
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Gene ID	14173
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mRNA Refseq	NM_008006
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Protein Refseq	NP_032032
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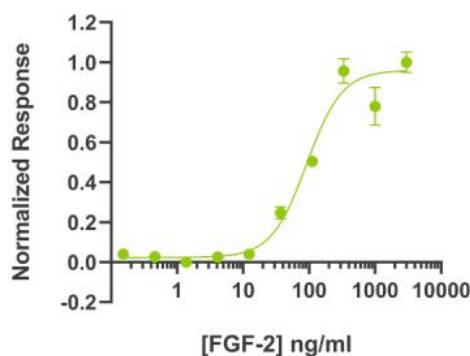
UniProt ID	P15655
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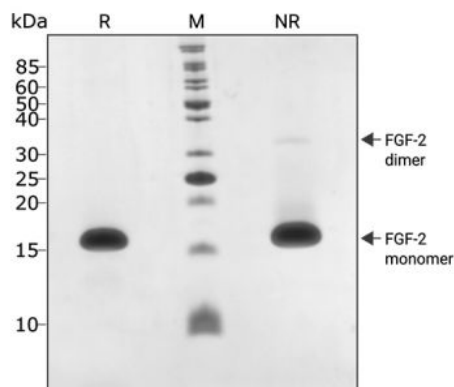
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Bioactivity



Mouse FGF2 activity is determined using the serum response element luciferase reporter assay in transfected HEK293T cells. EC₅₀ = 93 pg/ml (5.7 pM). Cells are treated in triplicate with a serial dilution of mouse FGF-2 for 3 hours. Firefly luciferase activity is measured and normalized to the control Renilla luciferase activity.

Purity



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Mouse FGF-2 migrates as predominantly as a single band at 16 kDa in non-reducing conditions, although a small amount of dimer can be seen. Upon reduction (R), only the 16 kDa band is visible. No contaminating protein bands are visible.

Purified recombinant protein was resolved using 15% w/v SDS-PAGE in reduced and non-reduced conditions and stained with Coomassie Brilliant Blue R250.

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