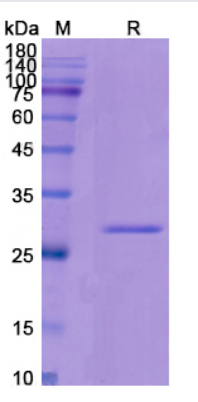
FGF2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	FGF2, Recombinant Protein
Full Product Name	Recombinant Human FGF2, N-SUMO
Product Gene Name	FGF2 recombinant protein
Product Synonym Names	bFGF; FGF2; Basic fibroblast growth factor; HBGF-2; FGFB; FGF-2; Heparin-binding growth factor 2; Fibroblast growth factor 2
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	30,770 Da
Sequence Positions	Pro143-Ser288
OMIM	134920
3D Structure	ModBase 3D Structure for P09038
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for FGF2 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for FGF2 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for FGF2 recombinant protein	MBS1573180 is a recombinant protein targeting FGF2. Also known as Recombinant Human FGF2, N-SUMO. Host: E coli.
Other Notes	Small volumes of FGF2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of FGF2 recombinant protein
SDS PAGE for recombinant Human FGF2/bFGF protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGF2. It may not necessarily be applicable to this product.

NCBI GI #	56068041
NCBI GeneID	2247
NCBI Accession #	AAV70487.1
UniProt Primary Accession #	P09038
UniProt Secondary Accession #	O00527; P78443; Q16443; Q5PY50; Q7KZ11; Q7KZ72; Q9UC54; Q9UCS5; Q9UCS6; A4LBB8
UniProt Related Accession #	P09038
NCBI Official Full Name	basic fibroblast growth factor, partial
NCBI Official Synonym Full Names	fibroblast growth factor 2 (basic)
NCBI Official Symbol	FGF2
NCBI Official Synonym Symbols	BFGF; FGFB; FGF-2; HBGF-2
UniProt Protein Name	Fibroblast growth factor 2
UniProt Synonym Protein Names	Basic fibroblast growth factor; bFGF; Heparin-binding growth factor 2
Protein Family	Fibroblast growth factor
UniProt Gene Name	FGF2
UniProt Synonym Gene Names	FGFB; FGF-2; bFGF; HBGF-2
UniProt Entry Name	FGF2_HUMAN
NCBI Protein Information	fibroblast growth factor 2; prostatropin; heparin-binding growth factor 2; basic fibroblast growth factor bFGF
NCBI Summary for FGF2	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF. [provided by RefSeq, Jul 2008]

UniProt Comments for FGF2	FGF2: Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. Monomer. Homodimer. Interacts with FGFR1, FGFR2, FGFR3 and FGFR4. Affinity between fibroblast growth factors (FGFs) and their receptors is increased by heparan sulfate glycosaminoglycans that function as coreceptors. Interacts with CSPG4, FGFBP1 and TEC. Found in a complex with FGFBP1, FGF1 and FGF2. Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in non- cancerous liver tissue. Belongs to the heparin-binding growth factors family. 4 isoforms of the human protein are produced by alternative initiation. Protein type: Activator; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 4q26 Cellular Component: extracellular space; extracellular region; nucleus Molecular Function: heparin binding; protein binding; growth factor activity; ligand-dependent nuclear receptor transcription coactivator activity; cytokine activity; chemoattractant activity; fibroblast growth factor receptor binding Biological Process: extracellular matrix organization and biogenesis; wound healing; nerve growth factor receptor signaling pathway; somatic stem cell maintenance; activation of MAPK activity; positive regulation of transcription, DNA-dependent; signal transduction; chemotaxis; hyaluronan catabolic process; growth factor dependent regulation of satellite cell proliferation; positive regulation of MAP kinase activity; positive chemotaxis; positive regulation of cell proliferation; embryonic morphogenesis; positive regulation of cardiac muscle cell proliferation; epidermal growth factor receptor signaling pathway; nervous system development; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; positive regulation of cell fate specification; positive regulation of blood vessel endothelial cell migration; positive regulation of phosphoinositide 3-kinase activity; negative regulation of blood vessel endothelial cell migration; regulation of angiogenesis; organ morphogenesis; positive regulation of angiogenesis; cell migration during sprouting angiogenesis; ureteric bud branching; positive regulation of cell division; release of sequestered calcium ion into cytosol; Ras protein signal transduction; insulin receptor signaling pathway; phosphatidylinositol biosynthetic process; innate immune response; positive regulation of transcription from RNA polymerase II promoter; positive regulation of endothelial cell proliferation; inositol phosphate biosynthetic process
Research Articles on FGF2	**1.** Topical secretoneurin gene therapy accelerates diabetic wound healing by interaction between heparan-sulfate proteoglycans and basic FGF.
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