Recombinant Mouse Fgf1, His-tagged

Cat. No. Fgf1-496M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse FGF1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (16-155 aa).
Species	Mouse
Source	Mouse
Description	Fibroblast growth factor 1, also known as FGF1, belongs to the fibroblast growth factor family. It is a potent mitogenic agent. FGF1 has been detected in large amounts in the brain. Other cells known to express FGF1 include hepatocytes, vascular smooth muscle cells, CNS neurons, skeletal muscle cells, fibroblasts, keratinocytes, endothelial cells, intestinal columnar epithelium cells and pituitary basophils and acidophils. The growth factor acts through activation of specific cell-surface receptors leading to intracellular tyrosine phosphorylation cascade.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl
Molecular Weight	18 kDa (161aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
Purity	> 90% by SDS - PAGE
Endotoxin Level	< 1.0 EU per 1 μg of protein (determined by LAL method)

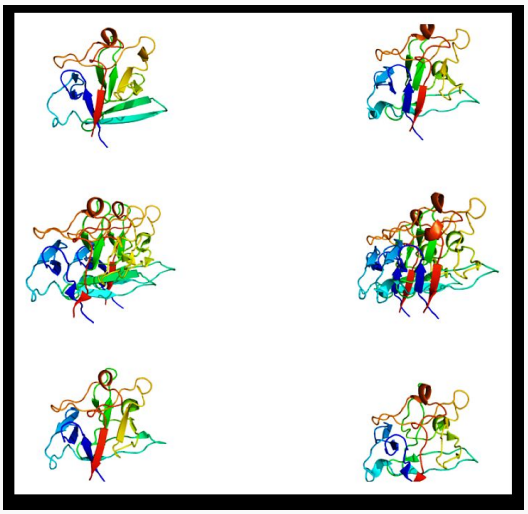
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Concentration	1mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MFNLPLGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE SAGEVYIKGT ETGQYLAMDT EGLLYGSQTP NEECLFLERL EENHYNTYTS KKHAEKNWFV GLKKNGSCKR GPRTHYGQKA ILFLPLPVSS D
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	Fgf1 fibroblast growth factor 1 [Mus musculus]
Official Symbol	Fgf1
Synonyms	fibroblast growth factor 1; Fam; Fgfa; Dffrx; Fgf-1; Fgf1; heparin-binding growth factor 1; aFGF; HBGF-1; OTTMUSP00000022029; OTTMUSP00000022030; acidic fibroblast growth factor; fibroblast growth factor 1 (acidic)
Gene ID	14164
mRNA Refseq	NM_010197
Protein Refseq	NP_034327
UniProt ID	P61148
Chromosome Location	18 B3; 18 19.0 cM

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Pathway	MAPK signaling pathway; Melanoma; Pathways in cancer; Regulation of actin cytoskeleton
Function	S100 alpha binding; fibroblast growth factor receptor binding; growth factor activity; heparin binding; protein binding
PDB rendering based on 1afc.	

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