

Active Recombinant Mouse Fibroblast Growth Factor 6

Cat. No. Fgf6-527M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fgf6 protein was expressed in E. coli. Pro39-Ile208.
Species	Mouse
Source	E.coli
Protein Length	39-208 a.a.
Description	Fgf6 is a 25-28kDa member of the FGF family of heparin binding polypeptides which are potent regulators of cell proliferation, differentiation, and function. FGF proteins contain a 120 amino acid (aa) core FGF domain that exhibits a β -trefoil structure. Mature mouse Fgf6 is a 171aa protein that shares 94% and 99% aa sequence identity with human and rat Fgf6, respectively. It binds and signals primarily through FGF R1c, 2c, and 4. Fgf6 functions as a mitogen for fibroblasts, vascular endothelial cells, and prostate carcinoma cells, and N-linked glycosylation is required for the full mitogenic effect. Fgf6 expression is restricted to skeletal muscle during development, although it can be upregulated in prostate cancer and Kaposi sarcoma.
Form	Lyophilized from a 0.2 um filtered solution in MOPS, Ammonium Sulfate, EDTA, DTT with BSA as a carrier protein.
N-terminal Sequence	Pro39
Molecular Weight	18.8 kDa

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Activity	Measured in a cell proliferation assay using NR6R-3T3 mouse fibroblasts. The ED50 for this effect is typically 0.2-1.0 ng/mL.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	19 kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in PBS containing at least 0.1% human or bovine serum albumin.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Fgf6 fibroblast growth factor 6 [<i>Mus musculus</i>]
Official Symbol	Fgf6
Synonyms	Fgf6; fibroblast growth factor 6; Fgf-6; HSTF-2; HST-2; HBGF-6; heparin-binding growth factor 6; heparin secretory-transforming protein 2
Gene ID	14177
mRNA Refseq	NM_010204
Protein Refseq	NP_034334

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UniProt ID	P21658
Chromosome Location	6
Pathway	Downstream signaling of activated FGFR; ESC Pluripotency Pathways; FGFR ligand binding and activation; FGFR1 ligand binding and activation; FGFR1c ligand binding and activation; FGFR2 ligand binding and activation; FGFR2c ligand binding and activation; FGFR3 ligand binding and activation; FRS2-mediated cascade; IRS-mediated signalling; Insulin receptor signalling cascade; MAPK signaling pathway; Melanoma; PI-3K cascade; Pathways in cancer; Regulation of Actin Cytoskeleton
Function	growth factor activity

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