

Active Recombinant Mouse Fibroblast Growth Factor 4

Cat. No. Fgf4-521M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fgf4 protein was expressed in E. coli. Ala30-Leu202.
Species	Mouse
Source	E.coli
Protein Length	30-202 a.a.
Description	Fgf4 is a 25kDa secreted, heparin-binding member of the FGF family. The mouse Fgf4 cDNA encodes 202 amino acids (aa) with a 29 aa signal sequence and a 173 aa mature protein with an FGF homology domain that contains a heparin binding region near the C-terminus. Expression of Fgf4 and its receptors, FGF R1c, 2c, 3c and 4, is spatially and temporally regulated during embryonic development. Its expression in the trophoblast inner cell mass promotes expression of FGF R2, and is required for maintenance of the trophectoderm and primitive endoderm.
Form	Lyophilized from a 0.2 um filtered solution in MOPS, Ammonium Sulfate, EDTA, DTT with BSA as a carrier protein.
N-terminal Sequence	Ala30
Molecular Weight	19.0 kDa
Activity	Measured in a cell proliferation assay using NR6R3T3 mouse fibroblasts. The ED50 for this effect is typically 0.75-3.75 ng/mL.

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Endotoxin Level	<1.0EU per 1µg of the protein by the LAL method.
SDS-PAGE	19 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100µg/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	Fgf4 fibroblast growth factor 4 [Mus musculus]
Official Symbol	Fgf4
Synonyms	Fgf4; fibroblast growth factor 4; KS3; hst; Fgfk; Hst1; kFGF; Fgf-4; hst-1; Hstf-1; HBGF-4; K-fibroblast growth factor; heparin-binding growth factor 4
Gene ID	14175
mRNA Refseq	NM_010202
Protein Refseq	NP_034332
UniProt ID	P11403
Chromosome	7

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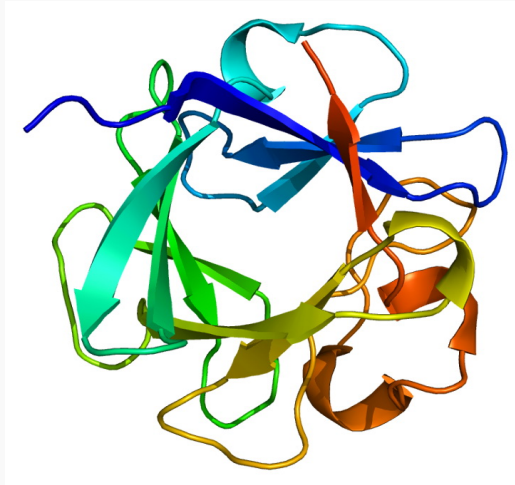
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Location**Pathway**

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

fibroblast growth factor receptor binding; growth factor activity

PDB rendering based on 1ijt.

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