

Active Recombinant Mouse Fibroblast Growth Factor 10

Cat. No. Fgf10-515M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fgf10 protein was expressed in E. coli. Ser62-Thr209.
Species	Mouse
Source	E.coli
Protein Length	62-209 a.a.
Description	The Fibroblast Growth Factors (FGFs) are heparin binding glycoproteins that exert a variety of biological activities toward cells of mesenchymal, neuronal, and epithelial origin. Fgf10 belongs to the subgroup of FGFs that also includes FGF-3, -7, and -22. Mature mouse Fgf10 is an approximately 20 kDa protein that contains a serine-rich region near its N-terminus. C-terminal to this region (aa 62-209), it shares 94% and 100% amino acid sequence identity with human and rat Fgf10, respectively. Fgf10 is secreted by mesenchymal cells and associates with extracellular FGF-BP. It preferentially binds and activates epithelial cell FGF R2 (IIIb) and interacts more weakly with FGF R1 (IIIa).
Form	Lyophilized from a 0.2 µm filtered solution in MOPS, Na ₂ SO ₄ , EDTA and DTT with BSA as a carrier protein.
N-terminal Sequence	Ser62
Molecular Weight	17.1 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Activity	Measured in a cell proliferation assay using 4MBr-5 monkey epithelial cells. The ED50 for this effect is typically 20-120 ng/mL.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	17 kDa, reducing conditions.
Purity	>95%, 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	Fgf10 fibroblast growth factor 10 [<i>Mus musculus</i>]
Official Symbol	Fgf10
Synonyms	Fgf10; fibroblast growth factor 10; Fgf-10; BB213776; keratinocyte growth factor 2
Gene ID	14165
mRNA Refseq	NM_008002
Protein Refseq	NP_032028
UniProt ID	O35565

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Chromosome Location	13
Pathway	DevelopmentalBiology; Downstream signaling of activated FGFR; ESC Pluripotency Pathways; FGFRligand binding and activation; FGFR1 ligand binding and activation; FGFR1bligand binding and activation; FGFR2 ligand binding and activation; FGFR2bligand binding and activation; FRS2-mediated cascade; IRS-mediated signalling;IRS-related events; Insulin receptor signalling cascade; MAPK signalingpathway; Melanoma; PI-3K cascade
Function	chemoattractantactivity; fibroblast growth factor receptor binding; growth factor activity; heparinbinding; protein binding; type 2 fibroblast growth factor receptor binding
PDBrendering based on 1nun.	