

Active Recombinant Mouse Fibroblast Growth Factor Receptor 3, Fc-tagged

Cat. No. Fgfr3-536M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fgfr3 protein was expressed in Murine myeloma cell line with the Fc part of human IgG1 Pro100-Lys330 (C-terminus) and Ala33-Tyr367 (N-terminus).
Species	Mouse
Source	Mammalian Cells
Protein Length	33-367 a.a.
Description	Fibroblast growth factors (FGFs) comprise a family of at least eighteen structurally related proteins that are involved in a multitude of physiological and pathological cellular processes, including cell growth, differentiation, angiogenesis, wound healing and tumorigenesis. The biological activities of the FGFs are mediated by a family of type I transmembrane tyrosine kinases which undergo dimerization and autophosphorylation after ligand binding. Four distinct genes encoding closely related FGF receptors, FGF R1-4, are known.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Ala33
Molecular Weight	63 kDa
Activity	Measured by its ability to inhibit FGF acidic dependent proliferation of NR6R-3T3

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	mousefibroblasts. The ED50 for this effect is typically 2-6 ng/mL.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	100-110kDa, reducing conditions
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS
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	Fgfr3 fibroblast growth factor receptor 3 [Mus musculus]
Official Symbol	Fgfr3
Synonyms	Fgfr3; fibroblast growth factor receptor 3; FR3; Mfr3; sam3; CD333; Flg-2; HBGFR; Fgfr-3; fibroblast growth factor receptor 3; heparin-binding growth factor receptor; EC 2.7.10.1; mCG_16331
Gene ID	14184
mRNA Refseq	NM_001163215
Protein Refseq	NP_001156687
UniProt ID	Q61851

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Chromosome Location	5 B; 5 20.0 cM
Pathway	Downstream signaling of activated FGFR; ESC Pluripotency Pathways; FGFR ligand binding and activation; IRS-mediated signalling; IRS-related events; Insulin receptor signalling cascade; MAPK signaling pathway; PI-3K cascade; Pathways in cancer; Phospholipase C-mediated cascade; Regulation of Actin Cytoskeleton; Signaling by FGFR; Signaling by Insulin receptor; Bladder cancer; Endochondral Ossification
Function	ATP binding; fibroblast growth factor binding; fibroblast growth factor-activated receptor activity; kinase activity; nucleotide binding; protein binding; protein tyrosine kinase activity; receptor activity; transferase activity; transmembrane receptor protein tyrosine kinase activity
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