

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**

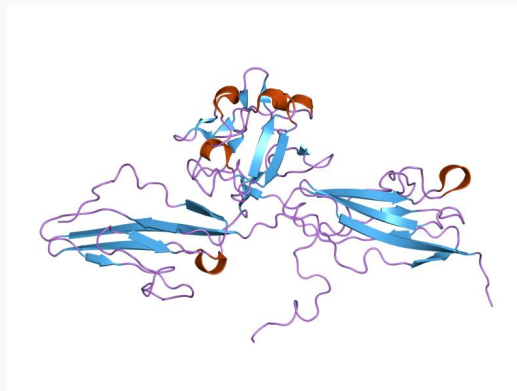
5 B; 5 20.0 cM

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

Rendering of 1ry7


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