

Active Recombinant Mouse Fibroblast Growth Factor Receptor 2, Fc-tagged

Cat. No. Fgfr2-551M **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Fgfr2 protein was expressed in Murine myeloma cell line with the Fc part of human IgG1 Pro100-Lys330 (C-terminus) and Arg22-Glu378 & Asn314His (N-terminus).

Species Mouse

Source Mammalian Cells

Protein Length 22-378 a.a.

Description Fibroblast growth factor receptor 2 alpha (Fgfr2 α) is a 140 kDa type I transmembrane receptor tyrosine kinase that mediates the heparan sulfate proteoglycan dependent biological activity of several FGFs. It is a member of the FGFR family of proteins whose extracellular domains contain three immunoglobulin-Ig-like domains with a series of acidic residues between the first and second Ig-like domains. Multiple forms of Fgfr2 are generated by alternative splicing. Alpha isoforms contain all three Ig-like domains, while beta forms lack the first Ig-like domain.

Form Lyophilized from a 0.2 μ m filtered solution in PBS.

N-terminal Sequence Arg22, Ser24, and Leu27

Molecular Weight 66.2 kDa

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Activity	<p>Measured by its binding ability in a functional ELISA. 200 ng/mL of biotinylated rmFGF1 is mixed with serially diluted rmFgfr2α (IIIb)/Fc. Following incubation, the gfr2α (IIIb)/Fc FGF1/ biotin complex is captured on a Streptavidin coated plate. Bound Fgfr2α (IIIb)/Fc is measured using HRP labeled Goat Anti Human IgG Fc. The concentration of rmFgfr2α (IIIb)/Fc that produces 50% of the optimal binding was found to be approximately 150-600 ng/mL.</p>
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	105-120 kDa, 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	Fgfr2 fibroblast growth factor receptor 2 [<i>Mus musculus</i>]
Official Symbol	Fgfr2
Synonyms	Fgfr2; fibroblast growth factor receptor 2; Bek; sv5; KGFR; Fgfr7; Fgfr-2; Fgfr-7; KGFRTr; AU043015; AW556123; fibroblast growth factor receptor 2; keratinocyte growth factor receptor; EC 2.7.10.1; CD332; Ect1
Gene ID	14183

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mRNA Refseq	NM_010207
Protein Refseq	NP_034337
UniProt ID	P21803
Chromosome Location	7 F3; 7
Pathway	Downstream signaling of activated FGFR; ESC Pluripotency Pathways; FGFR ligand binding and activation; FGFR2 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; Endocytosis; Signaling by FGFR; Signaling by Insulin receptor
Function	ATP binding; fibroblast growth factor 1 binding; fibroblast growth factor binding; fibroblast growth factor-activated receptor activity; heparin binding; kinase activity; nucleotide binding; protein binding; protein homodimerization activity; protein kinase activity; protein tyrosine kinase activity; receptor activity; transferase activity; transmembrane receptor protein tyrosine kinase activity
PDB rendering based on 1djs.	

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