

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

Cat. No. Fgfr2-542M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fgfr2 protein was expressed in Sf 21 with the Fc part of human IgG1 Pro100-Lys330(C-terminus) and Arg41-Glu308 (N-terminus).
Species	Mouse
Source	S.frugiperda
Protein Length	41-308 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	Arg41
Molecular Weight	56 kDa
Activity	Measured by its ability to inhibit FGF acidic dependent proliferation of NR6R-3T3

 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

mousefibroblasts. The ED50 for this effect is typically 0.5-2 ng/mL.

Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	74 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 [Mus musculus]
Official Symbol	Fgfr2
Synonyms	Fgfr2; fibroblast growth factor receptor 2; Bek; sv5; KGFR; Fgfr7; Fgfr-2; Fgfr-7; KGFRT; AU043015; AW556123; fibroblast growth factor receptor 2; keratinocyte growth factor receptor; EC 2.7.10.1; CD332; Ect1
Gene ID	14183
mRNA Refseq	NM_010207
Protein Refseq	NP_034337
UniProt ID	P21803

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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
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