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

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

SPECIFICATION

Product Overview	Recombinant Mouse Fgfr2protein 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
ProteinLength	41-308 a.a.
Description	Fibroblast growthfactors (FGFs) comprise a family of at least eighteen structurally relatedproteins that are involved in a multitude of physiological and pathologicalcellular processes, including cell growth, differentiation, angiogenesis,wound healing and tumorgenesis. The biological activities of the FGFs aremediated by a family of type I transmembrane tyrosine kinases which undergodimerization and autophosphorylation after ligand binding. Four distinctgenes encoding closely related FGF receptors, FGF R1-4, are known.
Form	Lyophilized from a0.2 μm filtered solution in PBS.
N-terminalSequence	Arg41
Molecular Weight	56 kDa
Activity	Measuredby its ability to inhibit FGF acidicdependent 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 EUper 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	Reconstituteat 100 μg/mL in sterile PBS
Storage	Use a manualdefrost freezer and avoid repeated freezethaw 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 factorreceptor 2 [Mus musculus]
Official Symbol	Fgfr2
Synonyms	Fgfr2; fibroblastgrowth factor receptor 2; Bek; svs; KGFR; Fgfr7; Fgfr-2; Fgfr-7; KGFRTr;AU043015; AW556123; fibroblast growth factor receptor 2; keratinocyte growthfactor 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 signalingof activated FGFR; ESC Pluripotency Pathways; FGFR ligand binding andactivation; FGFR2 ligand binding and activation; IRS-mediated signalling; IRS-relatedevents; Insulin receptor signalling cascade; MAPK signaling pathway; PI-3Kcascade; Pathways in cancer; Phospholipase C-mediated cascade; Regulation ofActin Cytoskeleton; Endocytosis; Signaling by FGFR; Signaling by Insulinreceptor
Function	ATP binding;fibroblast growth factor 1 binding; fibroblast growth factor binding;fibroblast growth factor-activated receptor activity; heparin binding; kinaseactivity; nucleotide binding; protein binding; protein homodimerizationactivity; protein kinase activity; protein tyrosine kinase activity; receptoractivity; transferase activity; transmembrane receptor protein tyrosinekinase activity
PDBrendering based on 1djs.	

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