

Recombinant Human Fibroblast Growth Factor Receptor 2, His-tagged

Cat. No. FGFR2-5418H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanFGFR2 cytoplasmic domain (amino acids 403-822), His-tagged. No specialmeasures were taken to activate this kinase.
Species	Human
Source	Insect Cells
ProteinLength	403-822 a.a.
Description	This protein functions as amodifier of endothelial cell migration and proliferation, as well as anangiogenic factor. It acts as a mitogen for a variety of mesoderm-andneuroectoderm-derived cells in vitro, thus is thought to be involved inorganogenesis. Three alternatively spliced variants encoding differentisoforms have been described. The heparin-binding growth factors areangiogenic agents in vivo and are potent mitogens for a variety of cell typesin vitro. There are differences in the tissue distribution and concentrationof these 2 growth factors.
MolecularWeight	52.1 kDa
Purity	≥ 90% as determinedby SDS-PAGE analysis
Specific Activity	2700nmole of phosphate transferred to poly [Glu,Tyr] 4:1 substrate per minute permg oftotalprotein at 30°C. Activity determined at a final protein concentration of 1µg/ml.

 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

Storage	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	FGFR2
GENE INFORMATION	
Gene Name	FGFR2 fibroblast growth factor receptor 2 [Homo sapiens]
Synonyms	FGFR2; fibroblast growth factor receptor 2; BEK; JWS; CEK3; CFD1; ECT1; KGFR; TK14; TK25; BFR-1; CD332; K-SAM; FLJ98662; FGFR2; KSAR; FGFR-2; KSAM; OTTHUMP00000020621; OTTHUMP00000020629; BEK fibroblast growth factor receptor; CD332 antigen; FGFR receptor; Jackson-Weiss syndrome; Keratinocyte growth factor receptor 2; bacteria-expressed kinase; craniofacial dysostosis 1; fibroblast growth factor receptor 2; hydroxyaryl-protein kinase; keratinocyte growth factor receptor; protein tyrosine kinase, receptor like 14; soluble FGFR4 variant 4
Gene ID	2263
mRNA Refseq	NM_000141
Protein Refseq	NP_000132
MIM	176943
UniProt ID	P21802
Chromosome Location	10q26
Pathway	Angiogenesis; Downstream signaling of activated FGFR; Endocytosis; FGF signaling pathway; FGFR ligand binding and activation; FGFR2 ligand binding and

 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

activation;FRS2-mediated cascade; IRS-mediated signalling; Insulin receptor signallingcascade; MAPK signaling pathway; Negative regulation of FGFR signaling; PI-3Kcascade; Pathways in cancer; Regulation of Actin Cytoskeleton; SHC-mediatedcascade

Function

ATP binding; fibroblast growthfactor receptor activity; heparin binding; nucleotide binding; proteinbinding; receptor activity; transferase activity

**PDBrendering based
on 1djs.**

 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