Active Recombinant Human FGFR4, GST-tagged

Cat. No. FGFR4-92H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FGFR4 (V550L) (460-end) was expressed by baculovirus in Sf9 cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	460-end a.a.
Description	The protein encoded by this gene is a member of the fibroblast growth factor receptor family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. The genomic organization of this gene, compared to members 1-3, encompasses 18 exons rather than 19 or 20. Although alternative splicing has been observed, there is no evidence that the C-terminal half of the IgIII domain of this protein varies between three alternate forms, as indicated for members 1-3. This particular family member preferentially binds acidic fibroblast growth factor and, although its specific function is unknown, it is overexpressed in gynecological tumor samples, suggesting a role in breast and ovarian tumorigenesis.?

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Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	The specific activity of FGFR4 (V550L) was determined to be 146 nmol/min/mg as per activity assay protocol.
Molecular Mass	~65 kDa
AA Sequence	460-end (V550L)
Purity	The purity of FGFR4 (V550L) was determined to be >90% by densitometry.
Applications	Kinase Assay
Stability	1 yr at –70oC from date of shipment.
Storage	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 ug/ul

GENE INFORMATION

Gene Name	FGFR4?fibroblast growth factor receptor 4 [?Homo sapiens?(human)]
Official Symbol	FGFR4
Synonyms	FGFR4; TKF; JTK2; CD334; fibroblast growth factor receptor 4; fibroblast growth factor receptor 4; FGFR-4; tyrosylprotein kinase; protein-tyrosine kinase; hydroxyaryl-protein kinase; tyrosine kinase related to fibroblast growth factor receptor; EC

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Gene ID	2264
mRNA Refseq	NM_002011
Protein Refseq	NP_002002
MIM	134935
UniProt ID	P22455
Chromosome Location	5q35.2
Pathway	Constitutive PI3K/AKT Signaling in Cancer; DAP12 interactions; Downstream Signaling Events Of B Cell Receptor (BCR)
Function	ATP binding; fibroblast growth factor binding; fibroblast growth factor-activated receptor activity

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