

## Active Recombinant Human FGFR3, GST-tagged

Cat. No. FGFR3-89H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human FGFR3 (G697C) (397-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

**Species** Human

**Source** Sf9 Cells

**ProteinLength** 397-end a.a.

**Description** This gene encodes a member of the fibroblast growth factor receptor (FGFR) family, with its amino acid sequence being highly conserved between members and among divergent species. 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. This particular family member binds acidic and basic fibroblast growth hormone and plays a role in bone development and maintenance. Mutations in this gene lead to craniosynostosis and multiple types of skeletal dysplasia. Three alternatively spliced transcript variants that encode different protein isoforms have been described.

**Form** Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM

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	glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Bio-activity</b>	The specific activity of FGFR3 (G697C) was determined to be 4.5 nmol/min/mg as per activity assay protocol.
<b>Molecular Mass</b>	~73 kDa
<b>AA Sequence</b>	397-end (G697C)
<b>Purity</b>	The purity of FGFR3 (G697C) was determined to be >95% by densitometry, approx.
<b>Applications</b>	Kinase Assay
<b>Stability</b>	1 yr at -70oC from date of shipment.
<b>Storage</b>	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.
<b>Concentration</b>	0.1 ug/ul

## GENE INFORMATION

<b>Gene Name</b>	FGFR3?fibroblast growth factor receptor 3 [?Homo sapiens(human) ]
<b>Official Symbol</b>	FGFR3
<b>Synonyms</b>	FGFR3; ACH; CEK2; JTK4; CD333; HSGFR3EX; fibroblast growth factor receptor 3; fibroblast growth factor receptor 3; FGFR-3; tyrosine kinase JTK4; hydroxyaryl-protein kinase; fibroblast growth factor receptor 3 variant 4; EC 2.7.10.1

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<b>Gene ID</b>	2261
<b>mRNA Refseq</b>	NM_000142
<b>Protein Refseq</b>	NP_000133
<b>MIM</b>	134934
<b>UniProt ID</b>	P22607
<b>Chromosome Location</b>	4p16.3
<b>Pathway</b>	Bladder cancer; Constitutive PI3K/AKT Signaling in Cancer; DAP12 signaling
<b>Function</b>	ATP binding; fibroblast growth factor binding; fibroblast growth factor-activated receptor activity

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