

Active Recombinant Human FGFR3, GST-tagged

Cat. No. FGFR3-88H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human FGFR3 (K650Q) (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.

Bio-activity

The specific activity of FGFR3 (K650Q) was determined to be 34 nmol/min/mg as per activity assay protocol.

Molecular Mass

~73 kDa

AA Sequence

397-end (K650Q)

Purity

The purity of FGFR3 (K650Q) was determined to be >90% by densitometry, approx.

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

FGFR3?fibroblast growth factor receptor 3 [?Homo sapiens(human)]

Official Symbol

FGFR3

Synonyms

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

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