

Recombinant Active Human FGFR1 (W666R) Mutant Protein, GST-tagged

Cat. No. FGFR1-28H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FGFR1 (W666R) (399-end) was expressed by baculovirus in Sf9 cells using an N-terminal GST tag.
Species	Human
Source	Insect Cells
ProteinLength	399-end a.a.
Description	The protein encoded by this gene is a member of the fibroblast growth factor receptor (FGFR) 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 consists 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 both acidic and basic fibroblast growth factors and is involved in limb induction. Mutations in this gene have been associated with Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome, osteoglophonic dysplasia, and autosomal dominant Kallmann syndrome 2. Chromosomal aberrations involving this gene are associated with stem cell myeloproliferative disorder and stem cell leukemia lymphoma syndrome. Alternatively

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	spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized.
Molecular Mass	Approx 74 kDa
Purity	> 90%
Stability	One year at -70 centigrade from data of shipment.
Storage	Store product at –70 centigrade. 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	0.05 µg/µL
Storage Buffer	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 25% glycerol.
Shipping	Dry ice

GENE INFORMATION

Gene Name	FGFR1 fibroblast growth factor receptor 1 [Homo sapiens (human)]
Official Symbol	FGFR1
Synonyms	FGFR1; fibroblast growth factor receptor 1; CEK; FLG; HH2; OGD; ECCL; FLT2; KAL2; BFGFR; CD331; FGFBR; FLT-2; HBGFR; N-SAM; FGFR-1; HRTFDS; bFGF-R-1; fibroblast growth factor receptor 1; FGFR1/PLAG1 fusion; FMS-like tyrosine kinase 2; basic fibroblast growth factor receptor 1; fms-related tyrosine kinase 2; heparin-binding growth factor receptor; hydroxyaryl-protein kinase; proto-oncogene c-

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Fgr; EC 2.7.10.1

Gene ID 2260

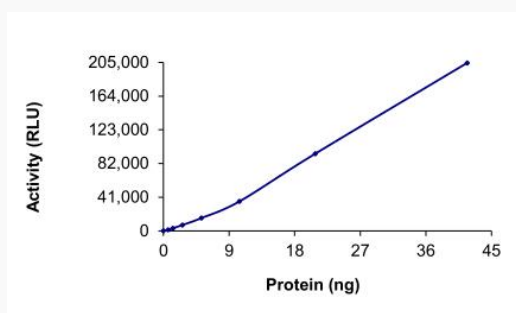
mRNA Refseq NM_023110

Protein Refseq NP_075598

MIM 136350

UniProt ID P11362

Specific Activity



The specific activity of FGFR1 (W666R) was determined to be 15 nmol/min/mg as per activity assay protocol.

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Purity



The purity of FGFR1 (W666R) was determined to be >90 % by densitometry.

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