

Recombinant Human Fibroblast Growth Factor Receptor 1, GST-tagged

Cat. No. FGFR1-4843H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FGFR1 (399-822; V561M) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	399-822 a.a.
Description	FGFR1 (also known as FLT2) is a member of the Fibroblast Growth Factor Receptor family that constitute a family of four membrane-spanning tyrosine kinases (FGFR1-4) which serve as high-affinity receptors for 17 growth factors (FGF1-17). The FGF Receptor family plays an important role in multiple biological processes, including mesoderm induction and patterning, cell growth and migration, organ formation and bone growth. FGFR1 is alternatively spliced generating multiple splice variants that are differentially expressed during embryo development and in the adult body.
Applications	Kinase Assay; Western Blot
Molecular Weight	75 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT,

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	0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25 % glycerol.
Specific Activity	32 nmol/min/mg
Purity	> 90 %
Concentration	0.1 ug/ul
Sequences	399-822; V561M
Storage	Store product at -70°C. 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.
Pathways	adherens junction; axon guidance; downstream signaling of activated FGFR; endochondral ossification; FGF signaling pathway; glypican 1 network; IRS-mediated signaling; Insulin receptor signalling cascade; L1CAM interactions

GENE INFORMATION

Gene Name	FGFR1 fibroblast growth factor receptor 1 [Homo sapiens]
Official Symbol	FGFR1
Synonyms	FGFR1; fibroblast growth factor receptor 1; CEK; FLG; OGD; FLT2; KAL2; BFGFR; CD331; FGFBR; FLT-2; HBGFR; N-SAM; FGFR-1; FLJ99988; bFGF-R-1; basic fibroblast growth factor receptor 1; OTTHUMP00000190874; OTTHUMP00000190875; OTTHUMP00000190876; OTTHUMP00000190877; OTTHUMP00000190879; OTTHUMP00000190880; OTTHUMP00000190881; OTTHUMP00000190885; proto-oncogene c-Fgr; FMS-like tyrosine kinase 2; hydroxyaryl-protein kinase; fms-related tyrosine kinase 2; heparin-binding growth

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factor receptor	
Gene ID	2260
mRNA Refseq	NM_023110
Protein Refseq	NP_075598
MIM	136350
UniProt ID	P11362
Chromosome Location	8p12
Function	ATP binding; fibroblast growth factor receptor activity; heparin binding; nucleotide binding; protein binding; protein homodimerization activity; protein tyrosine kinase activity; receptor activity
PDBrendering based on 1agw.	

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