

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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-

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Fgr; EC 2.7.10.1

Gene ID [2260](#)

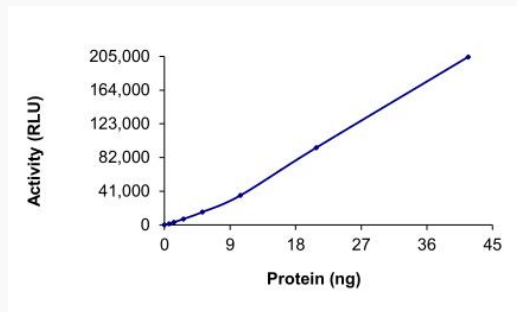
mRNA Refseq [NM_023110](#)

Protein Refseq [NP_075598](#)

MIM [136350](#)

UniProt ID [P11362](#)

Specific Activity



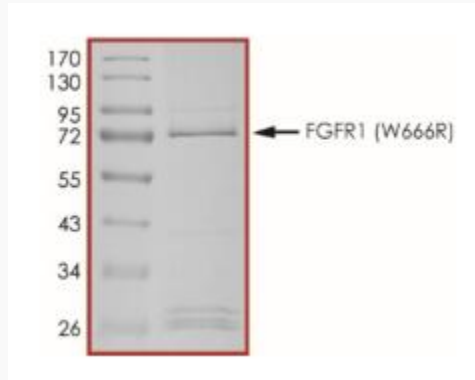
The specific activity of FGFR1 (W666R) was determined to be 15 nmol/min/mg as per activity assay protocol.

 Tel: 1-631-559-9269 1-516-512-3133


 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity



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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA