

Recombinant Active Human FGFR1 Protein (ECD), Fc-His-tagged(C-ter)

Cat. No. FGFR1-91H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Active Human FGFR1 Protein (ECD) with Fc-His tag (C-ter) was expressed in HEK293.

Species

Human

Source

HEK293

ProteinLength

Arg22-Glu376

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. [provided by RefSeq, Jul 2008]

Form	Powder
Bio-activity	Measured by its ability to inhibit FGF-acidic dependent proliferation of Balb/c 3T3 mouse fibroblasts. The ED50 for this effect is typically 0.605-2.42 ng/mL.
Endotoxin	Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.
Purity	> 95% (by SDS-PAGE)
Applications	Binding, FuncSt, SDS-PAGE
Notes	For laboratory research only, not for drug, diagnostic or other use.
Storage	Lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Storage Buffer	PBS (pH 7.4)
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/ml in sterile distilled water.

GENE INFORMATION

Gene Name	FGFR1 fibroblast growth factor receptor 1 [Homo sapiens]
Official Symbol	FGFR1

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Synonyms

FGFR1; fibroblast growth factor receptor 1; FLT2, fms related tyrosine kinase 2 , KAL2; BFGFR; CD331; CEK; FLG; H2; H3; H4; H5; N SAM; Pfeiffer syndrome; FGFR1/PLAG1 fusion; proto-oncogene c-Fgr; FMS-like tyrosine kinase 2; hydroxyaryl-protein kinase; fms-related tyrosine kinase 2; heparin-binding growth factor receptor; basic fibroblast growth factor receptor 1; OGD; FLT2; KAL2; FGFBR; FLT-2; HBGFR; N-SAM; FGFR-1; bFGF-R-1; FLJ99988;

Gene ID

2260

mRNA Refseq

NM_001174063

Protein Refseq

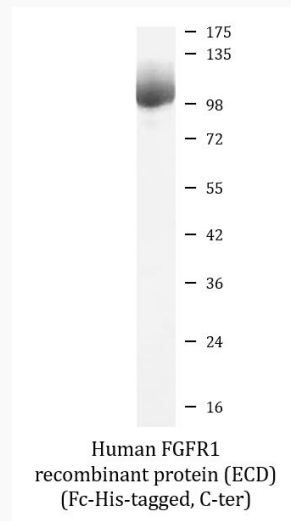
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136350

UniProt ID

P11362

SDS-PAGE


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