

## Recombinant Human FGFR1 Protein, Fc-tagged

Cat. No. FGFR1-249H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human FGFR1 protein with Fc tag was expressed in HEK293.

**Species** Human

**Source** HEK293

**ProteinLength** 504

#### 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 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. A marked difference between this gene product and the other family members is its lack of a cytoplasmic tyrosine kinase domain. The result is a transmembrane receptor that could interact with other family members and potentially inhibit signaling. Multiple alternatively spliced transcript variants encoding the same isoform have been found for this gene.

**Form** Lyophilized

**Molecular Mass** 65.5 kDa

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|                       |  |
|-----------------------|--|
| <b>AA Sequence</b>    | <p>MTPSPLLLLLLPPLLGAFFPAAAARGPPKMADKVVPRQVARLGRTVRLQCPVEGD<br/>         PPPLTMWTKDGRTHSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGSLSVN<br/>         YTLVVLDLDDISPGKESLGPDSSSSGGQEDPASQQWARPRFTQPSKMRRRVIARPVGS<br/>         SVRLKCVASGHPRPDITWMKDDQALTRPEAAEPRKKKWTLSLKNLRPEDSGKYTCR<br/>         VSNRAGAINATYKVDVIQRTRSKPVLGTGHPVNTTVDFGGTTSFQCKVRSVDPVVIQ<br/>         WLKRVEYGAEGRHNSTIDVGGQKFVVLPTGDVWSRPDGSYLNKLLITRARQDDAG<br/>         MYICLGANTMGYSFRSAFLTVLPDPKPPGPPVASSSSATSLPWPVVIGIPAGAVFILG<br/>         TLLLWLCQAQKKPCTPAPAPPLPGHRPPGTARDRSGDKDLPSLAALSAGPGVGLCE<br/>         EHGSPAAPQHLLGPGPVAGPKLYPKLYTDIHTHTHTHSHTHSHVEGKVHQHIHYQC</p> |
| <b>Purity</b>         | > 98%  |
| <b>Applications</b>   | WB; ELISA; FACS; FC  |
| <b>Stability</b>      | This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.   |
| <b>Storage</b>        | At -20 centigrade.   |
| <b>Concentration</b>  | 1 mg/mL  |
| <b>Storage Buffer</b> | PBS (pH 7.4-7.5). Sterile-filtered colorless solution.   |
| <b>Reconstitution</b> | Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.  |

## GENE INFORMATION

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|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | FGFRL1 fibroblast growth factor receptor-like 1 [ Homo sapiens (human) ]  |
| <b>Official Symbol</b> | FGFRL1  |
| <b>Synonyms</b>        | FGFRL1; fibroblast growth factor receptor-like 1; FGFR-5; FGFR-like protein; FGF receptor-like protein 1; FGF homologous factor receptor; fibroblast growth factor receptor 5; FHFR; FGFR5; |
| <b>Gene ID</b>         | 53834   |
| <b>mRNA Refseq</b>     | NM_001004356  |
| <b>Protein Refseq</b>  | NP_001004356  |
| <b>MIM</b>             | 605830  |
| <b>UniProt ID</b>      | Q8N441  |

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