

## Active Recombinant Human FGFR3, Fc-tagged

**Cat. No.** FGFR3-611H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The recombinant human FGFR3-Fc fusion protein is expressed as a 581 amino acid protein consisting of Glu23 - Gly375 region of FGFR3 (Uniprot accession #P22607 - isoform 1) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Human Cells                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 23-375 a.a.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>             | Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier free).                                                                                                                                                                                                                                                                                                          |
| <b>Bio-activity</b>     | Binds and inhibits aFGF / FGF-acidic dependent proliferation of mouse fibroblast cells with an ED50 of 0.05 - 0.3 µg/ml                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | Calculated molecular mass (kDa): 63.7; Estimated by SDS-PAGE under reducing condition (kDa): 80-90                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | ESLGTEQRVVGRAAEVPGPEPGQQEQLVFGSGDAVELSCPPPGGGPMGPTVWVK<br>DGTGLVPSERVLVGPQRLQV LNASHEDSGAYSCRQRLTQRVLCHFVSRVTDAPSS<br>GDDEDEGEDEAEDTGVDTGAPYWTRPERMDKKLLAVPAAN TVRFRCPAAGNPTPSI<br>SWLKNGREFRGEHRIGGIKLRHQWLSVMESVVPSDRGNYTCVVENKFGSIRQTYT<br>LD VLERSPHRPILQAGLPANQTAVLGSDVEFHCKVYSDAQPHIQWLKHVEVNGSKV<br>GPDGTPYVTVLKTAGANTTD KELEVLSLHNVTFEDAGEYTCLAGNSIGFSHSAWL |

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VVLPAEEELVEADEAGSVYAGSTGTHTCPPCPAPELLG GPSVFLFPPKPKDTLMISR  
TPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLH  
QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT  
CLVKGFYPSDIAVEWES NGQPENNYKTTPVLDSGDSFFLYSKLTVDKSRWQQGN  
VFSCSVMHEALHNHYTQKSLSLSPGK

**Endotoxin** <0.1 eu per 1 µg of purified recombinant protein determined by the

**Purity** >95% judged by SDS-PAGE under reducing condition

**Storage** The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below –20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** [FGFR3 fibroblast growth factor receptor 3 \[ Homo sapiens \]](#)

**Official Symbol** FGFR3

**Synonyms** FGFR3; fibroblast growth factor receptor 3; ACH, achondroplasia, thanatophoric dwarfism; CD333; CEK2; JTK4; FGFR-3; tyrosine kinase JTK4; hydroxyaryl-protein kinase; ACH; HSFGR3EX;

**Gene ID** [2261](#)

**mRNA Refseq** [NM\\_000142](#)

**Protein Refseq** [NP\\_000133](#)

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MIM</b>                 | 134934                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | P22607                                                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 4p16.3                                                                                                                                                                                                                                                                                                                                                      |
| <b>Pathway</b>             | Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Downstream signaling of activated FGFR, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; FGFR ligand binding and activation, organism-specific biosystem; |
| <b>Function</b>            | ATP binding; fibroblast growth factor binding; fibroblast growth factor binding; fibroblast growth factor-activated receptor activity; nucleotide binding; protein binding; protein tyrosine kinase activity; protein tyrosine kinase activity; receptor activity;                                                                                          |

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