Active Recombinant Human FGFR3, Fc-tagged, Biotinylated

Cat. No. FGFR3-610H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human Cells
ProteinLength	23-375 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule)
Bio-activity	Binds and inhibits aFGF / FGF-acidic dependent proliferation of mouse fibroblast cells with an ED50 of 0.05 - 0.3 μg/ml
Molecular Mass	Calculated molecular mass (kDa): 63.7; Estimated by SDS-PAGE under reducing condition (kDa): 80-90
AA Sequence	ESLGTEQRVVGRAAEVPGPEPGQQEQLVFGSGDAVELSCPPPGGGPMGPTVWVK DGTGLVPSERVLVGPQRLQV LNASHEDSGAYSCRQRLTQRVLCHFSVRVTDAPSS GDDEDGEDEAEDTGVDTGAPYWTRPERMDKKLLAVPAAN TVRFRCPAAGNPTPSI SWLKNGREFRGEHRIGGIKLRHQQWSLVMESVVPSDRGNYTCVVENKFGSIRQTYT LD VLERSPHRPILQAGLPANQTAVLGSDVEFHCKVYSDAQPHIQWLKHVEVNGSKV

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	GPDGTPYVTVLKTAGANTTD KELEVLSLHNVTFEDAGEYTCLAGNSIGFSHHSAWL VVLPAEEELVEADEAGSVYAGSTGTHTCPPCPAPELLG GPSVFLFPPKPKDTLMISR TPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT CLVKGFYPSDIAVEWES NGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGN 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.
Conjugation	Biotin

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; HSFGFR3EX;
Gene ID	2261

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mRNA Refseq	NM_000142
Protein Refseq	NP_000133
MIM	134934
UniProt ID	P22607
Chromosome Location	4p16.3
Pathway	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;
Function	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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