

Active Recombinant Human FGFR3, His-tagged

Cat. No. FGFR3-612H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human FGFR3 ECD protein is expressed as a 364 amino acid protein consisting of Glu23 - Gly375 region of FGFR3 (Uniprot accession #P22607 - isoform 1) and a C-terminal poly-His tag, which exists as a monomer under reducing and non-reducing conditions. It contains 8 potential N-linked glycosylation sites.
Species	Human
Source	Human Cells
ProteinLength	23-375 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier free).
Bio-activity	Binds and inhibits aFGF / FGF-acidic dependent proliferation of mouse fibroblast cells.
Molecular Mass	Calculated molecular mass (kDa): 39.5; Estimated by SDS-PAGE under reducing condition (kDa): 50-60
AA Sequence	ESLGTEQRVVGRAAEVPGPEPGQQEQLVFGSGDAVELSCPPPGGGPMGPTVWVK DGTGLVPSERVLVGPQRLQV LNASHEDSGAYSCRQRLTQRLCHFSVRVTDAPSS GDDEDEGEDEAEDTGVDTGAPYWTRPERMDKKLLAVPAAN TVRFRCPAAGNPTPSI SWLKNGREFRGEHRIGGIKLRHQWLSVMESVPSDRGNYTCVVENKFGSIRQTYT LD VLERSPHRPILQAGLPANQTAVLGSDVEFHCKVYSDAQPHIQWLKHVEVNGSKV GPDGTPYVTVLKTAGANTTD KELEVLSLHNVTFEDAGEYTCLAGNSIGFSHSAWL

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VVLPAEEELVEADEAGSVYAGSTGHHHHHHHH

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

MIM 134934

UniProt ID P22607

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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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