

# Recombinant Full Length Human FGFR3 Protein

Cat. No. FGFR3-4893HF Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Human FGFR3 full-length ORF (AAI66684.1) recombinant protein without tag.

**Species** Human

**Source** In Vitro Cell Free System

**ProteinLength** 315 amino acids

### Description

This gene encodes a member of the fibroblast growth factor receptor (FGFR) family, with its amino acid sequence being highly conserved between members and among divergent species. 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. This particular family member binds acidic and basic fibroblast growth hormone and plays a role in bone development and maintenance. Mutations in this gene lead to craniosynostosis and multiple types of skeletal dysplasia. Three alternatively spliced transcript variants that encode different protein isoforms have been described. [provided by RefSeq]

**Form** Liquid

**Molecular Mass** 88.7 kDa

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**AA Sequence**

MGAPACALALCVAVAIVAGASSESLGTEQRRVVGRAAEVPGPEPGQQEQLVFGSGD  
 AVELSCPPPGGGPMGPTVWVKDGTGLVPSERVLVGPQRLQVLNASHEDSGAYSC  
 RQRLTQRVLC HF SVRVTDAPSSGDDEDEGEDEAEDTGVDTGAPYWTRPERMDKLL  
 AVPAANTVRFRCPAAGNPTPSISWLKNGREFRGEHRIGGIKLRHQQWSLVMESVVP  
 SDRGNYTCVVENKFGSIRQTYTLDVLESPHRPILQAGLPANQTAVLGSDVEFHCKV  
 YSDAQPHIQWLKHVEVNGSKVGPDPGTPYVTVLKTAGANTTDKELEVLSLHNVT FED  
 AGEYTCLAGNSIGFSHHSAWLVVLPAAEELVEADEAGSVYAGILSYGVGFFLFILVVA  
 AVTLCRLRSPPKKGLGSPTVHKISRFP LKRQVSLESNASMSSNTPLVRIARLSSGEG  
 PTLANVSELELPADPKWELSRARLT LGKPLGEGCFGQVMAEAIGIDKDRAAKPVTV  
 AVKMLKDDATDKDLSDLVSEMEMMMKMGKHKNIINLLGACTQGGPLYVLVEYAAKGN  
 LREFLRARRPPGLDYSFDTCKPPEEQ LTFKDLVSCAYQVARGMEY LASQKCIHRDL  
 AARNVLVTE DNMKIADFG LARDVHNLDY YKKT TNGRLPVKWM APEALFDRVYTHQ  
 SDVWSFGVLLWEIFTLGGSPYPGIPVEELFKLLKEGHRMDKPANCTHDLYMIMREC  
 WHAAPSQRPTFKQLVEDLDRVLTVTSTDEYLDLSAPFEQYSPGGQDTPSSSSSGDD  
 SVFAHDLLPPAPPSSGG SRT

**Applications**

Antibody Production  
 Functional Study  
 Compound Screening

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

25 mM Tris-HCl of pH8.0 containing 2% glycerol.

**GENE INFORMATION**

**Gene Name**

FGFR3 fibroblast growth factor receptor 3 [ Homo sapiens ]

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<b>Official Symbol</b>	FGFR3
<b>Synonyms</b>	FGFR3; fibroblast growth factor receptor 3; ACH, achondroplasia, thanatophoric dwarfism; CD333; CEK2; JTK4; FGFR-3; tyrosine kinase JTK4; hydroxyaryl-protein kinase; ACH; HSGFR3EX;
<b>Gene ID</b>	2261
<b>mRNA Refseq</b>	NM_000142
<b>Protein Refseq</b>	NP_000133
<b>MIM</b>	134934
<b>UniProt ID</b>	P22607

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