

Recombinant Human FGFR3 Protein

Cat. No. FGFR3-4134H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FGFR3 full-length ORF (AAI66684.1) recombinant protein without tag.
Species	Human
Source	Wheat Germ
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
AA Sequence	MGAPACALALCVAVAIVAGASSES LGTEQRRVVGRAAEVPGPEPGQQEQLVFGSGD

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AVELSCPPPGGGPMGPTVWVKDGTGLVPSERVLVGPQRLQVLNASHEDSGAYSC
 RQRLTQRVLCHFVRVTDAPSSGDDDEDEGEDEAEDTGVDTGAPYWTRPERMDKKLL
 AVPAANTVRFRCPAAGNPTPSISWLKNGREFRGEHRIGGIKLRHQWVSLVMESVVP
 SDRGNITCVVENKFGSIRQTYTLDVLERSPHRPILQAGLPANQTAVLGSDVEFHCKV
 YSDAQPHIQWLKHVEVNGSKVGPDPGTPYVTVLKTAGANTTDKELEVLSLHNVT FED
 AGEYTCLAGNSIGFSHHSAWLVVLPAAEELVEADEAGSVYAGILSYGVGFFLFILVVA
 AVTLCRLRSPPKKGLGSPTVHKISRFP LKRQVSLESNASMSSNTPLVRIARLSSGEG
 PTLANVSELELPADPKWELSRARLT LGKPLGEGCFGQVMAEAIGIDKDRAAKPVTV
 AVKMLKDDATDKDLSDLVSEMEMMKMIGKHKNIIINLLGACTQGGPLYVLVEYAAKGN
 LREFLRARRPPGLDYSFDTCKPPEEQ LTFKDLVSCAYQVARGMEYLASQKCIHRDL
 AARNVLVTEDNVMKIADFGLARDVHNLDYYKKTNGRLPVKWMAPEALFDRVYTHQ
 SDVWSFGVLLWEIFTLGGSPYPGIPVEELFKLLKEGHRMDKPANCTHDLYMIMREC
 WHAAPSQRPTFKQLVEDLDRVLTVTSTDEYLDLSAPFEQYSPGGQDTPSSSSSGDD
 SVFAHDLLPPAPPSSSGGSRT

Applications
 Antibody Production
 Functional Study
 Compound Screening

Usage
 Heating may cause protein aggregation. Please do not heat this product before electrophoresis.

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

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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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