

Fibroblast Growth Factor Receptor-3 Recombinant Protein | FGFR3 recombinant protein

Recombinant Human Fibroblast Growth Factor Receptor-3

CATALOG # AAA38397	HOST Insect Cells
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PRODUCT SYNONYMS

Fibroblast Growth Factor Receptor-3; Recombinant Human Fibroblast Growth Factor Receptor-3; FGFR3 Human; Fibroblast Growth Factor Receptor 3 Fc Chimera Human Recombinant; Achondroplasia; Thanatophoric Dwarfism; CD333; ACH; CEK2; JTK4; HSFGR3EX; FGFR3; FGFR3 recombinant protein

PRODUCT SPECIFICATIONS

Host	Insect Cells
Purity/Purification	Greater than 90.0% as determined by: (a) Analysis by silver stain. (b) Analysis by SDS-PAGE.
Form/Format	FGFR3 was lyophilized from a concentrated (1 mg/ml) sterile solution containing PBS. Sterile Filtered White lyophilized (freeze-dried) powder.
Concentration	1mg/ml (varies by lot)
Sequence	ESLGTEQRVV GRAAEVPGPE PGQEQQLVFG SGDAVELSCP PPGGGPMGPT VVWKDGTGLV PSERVLVGPQ RLQVLNASHE DSGAYSCRQR LTQRVLCHFS VRVTDAPSSG DDEGGEDEAE DTGVDTGAPY WTRPERMDKK LLAVPAANTV RFRCPAAGNP TPSISWLKNG REFRGEHRIG GIKLRHQWS LVMESVPSD RGNYTCVVEN KFGSIRQTYT LDVLERSPHR PILQAGLPAN QTAVLGSDVE FHCKVYSDAQ PHIQWLKHVE VNGSKVGPDG TPYVTVLKTA GANTTDKELE VLSLHNVTFE DAGEYTCLAG NSIGFSHSA WLVLPAEEE LVEADEAGDP RRASIEGRGD PEEKSCDKT HTPPCPAPE LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV SVTVLHQDWL NGKEYKCKVS NKALPAIEK TISKAKGQPR EPQVYTLPPS RDELTKNQVS LTCLVKGFYP SDIAVEWESN GQPENNYKTT PPVLDSGGSF FLYSKLTVDK SRWQQGNVFS CSVMHEALHN HYTKSLSLS PGK.
Sequence Length	806
Solubility	It is recommended to reconstitute the lyophilized FGFR-3 in sterile PBS not less than 50 ug/ml, which can then be further diluted to other aqueous solutions.
Preparation and Storage	Lyophilized FGFR3 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution FGFR3 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for FGFR3 recombinant protein	Description: Soluble FGFR3 Human recombinant fused using a Xa cleavage site with the Fc part of human IgG1 produced in Fc Chimera is a heterodimeric, glycosylated, Polypeptide chain containing 593aa and having a molecular mass of 170kDa. Introduction: Fibroblast Growth Factors (FGFs) comprise a family of at least eighteen structurally related proteins that are involved in a multitude of physiological and pathological cellular processes, including cell growth, differentiation, angiogenesis, wound healing and tumorigenesis. The biological activities of the FGFs are mediated by a family of type I transmembrane tyrosine kinases which undergo dimerization and autophosphorylation after ligand binding. Four distinct genes encoding closely related FGF receptors, FGFR-1 to -4 are known. Multiple forms of FGFR-1 to -3 are generated by alternative splicing of the mRNAs. A frequent splicing event involving FGFR-1 and -2 results in receptors containing all three Ig domains, referred to as the alpha isoform, or only IgII and IgIII, referred to as the ? isoform. Only the alpha isoform has been identified for FGFR-3 and FGFR-4. Additional splicing events for FGFR-1 to -3, involving the C-terminal half of the IgIII domain encoded by two mutually exclusive alternative exons, generate FGF receptors with alternative IgIII domains (IIb and IIc). A IIIa isoform which is a secreted FGF binding protein containing only the N-terminal half of the IgIII domain plus some intron sequences has also been reported for FGFR-1. Mutations in FGFR-1 to -3 have been found in patients with birth defects involving craniosynostosis.
Product Categories/Family for FGFR3 recombinant protein	Protein Kinases; Enzymes; FGF Receptors

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503711
NCBI GeneID	2261
NCBI Accession #	NP_000133.1
NCBI GenBank Nucleotide #	NM_000142.4
UniProt Accession #	P22607; Q14308; Q16294; Q16608; Q59FL9; D3DVP9; D3DVQ0
Molecular Weight	85,083 Da
NCBI Official Full Name	fibroblast growth factor receptor 3 isoform 1
NCBI Official Synonym Full Names	fibroblast growth factor receptor 3
NCBI Official Symbol	FGFR3
NCBI Official Synonym Symbols	ACH; CEK2; JTK4; CD333; HSGFR3EX
NCBI Protein Information	fibroblast growth factor receptor 3; FGFR-3; fibroblast growth factor receptor 3 variant 4; hydroxyaryl-protein kinase; tyrosine kinase JTK4
UniProt Protein Name	Fibroblast growth factor receptor 3
UniProt Gene Name	FGFR3
UniProt Synonym Gene Names	JTK4; FGFR-3
UniProt Entry Name	FGFR3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.