

## Human FGFR-3 (IIIc) / Fc Chimera, soluble

Synonyms: FGFR3, ACH, CEK2, JTK4, CD333, HSGFR3EX

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order #	Lot #	Expiry Date
10 µg	1392.952.010		
50 µg	1392.952.050		

Please enquire for bulk quantities and other vial sizes

### Description

Recombinant human soluble FGFR-3 alpha (IIIc) was fused via a Xa cleavage site with the Fc part of human IgG1. Human recombinant soluble FGFR-3 alpha (IIIc)/Fc is a disulfide-linked heterodimeric protein. In the reduced form the glycosylated subunits of sFGFR-3 alpha/human Fc chimera display a molecular mass of 80-85 kDa. 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 beta 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 (IIIb and IIIc). 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.

- **Source** Insect cells
- **Purity** ≥ 90 % (SDS-PAGE, silver stained)

### Biological Activity

Data not available.

### Reconstitution

The lyophilized sFGFR-3/Fc is soluble in water and most aqueous buffers and should be reconstituted in PBS or medium to a concentration not lower than 50µg/ml.

### Amino Acid Sequence

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ESLGTEQRVV GRAAEVPGPE PGQQEQLVFG SGDAVELSCP PPGGGPMGPT VWVKDGTGLV PSERVLVGPQ
RLQVLNASHE DSGAYSCRQR LTQRVLCHFV VRVTDAPSSG DDEDEGEDEAE DTGVDTGAPY WTRPERMDKK
LLAVPAANTV RFRCPAAGNP TPSISWLKNG REFRGEHRIG GIKLRHQQWS LVMESVVPD RGNVTCVVEN
KFGSIRQTYT LDVLESPHR PILQAGLPAN QTAVLGS DVE FHCKVYSDAQ PHIQWLKHVE VNGSKVGPDG
TPYVTVLKTA GANTTDKELE VLSLHNVTFE DAGEYTCLAG NSIGFSHSA WLVLPAEEE LVEADEAGDP
RRASIEGRGD PEEPKSCDKT HTCPCPAPE LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV
KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV SVTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKQPR
EPQVYTLPPS RDELTKNQVS LTCLVKGFYP SDIAVEWESN GQPENNYKTT PPVLDS DGSF FLYSKLTVDK
SRWQQGNVFS CSVMHEALHN HYTQKSLSL S PGK
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**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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