

FGFR3

Recombinant Human sFGFR-3 (IIIc)/Fc Chimera

Catalog No.	CRF018A	Quantity:	10 µg
	CRF018B		50 µg
	CRF018C		1.0 mg

Alternate Names: Fibroblast growth factor receptor 3, Fms-like tyrosine kinase 3, CD333

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 80-85kDa.

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 3 Ig domains, referred to as the alpha isoform, or only IgII and IgIII, referred to as the β 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.

GenelD: 2261

Source: Insect cells

Molecular Weight: 170 kDa (Dimer)

Formulation: Lyophilized from a solution of PBS

Purity: >90%, by SDS-PAGE and visualized by silver stain

Endotoxin Level: <0.1 ng per µg of sFGF-R3a



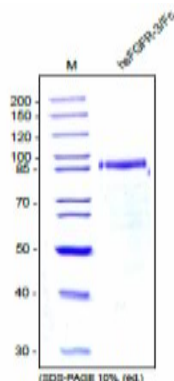
Amino Acid Sequence: ESLGTEQRVV GRAAEVPGPE PGQQEQLVFG SGDAVELSCP PPGGGPMGPT
VWVKDGTGLV PSERVLVGPQ RLQVLNASHE DSGAYSCRQR LTQRVLCHFS
VRVTDAPSSG DDEDEGEDEAE DTGVDTGAPY WTRPERMDKK LLAVPAANTV
RFRCPAAGNP TPSISWLKNG REFRGEHRIG GIKLRHQQWS LVMESVPSD
RGNYTCVVEN KFGSIRQTYT LDVLERSPHR PILQAGLPAN QTAVLGSDVE
FHCKVYSDAQ PHIQWLKHVE VNGSKVGPDG TPYVTVLKTA GANTTDKELE

VLSLHNVTFE DAGEYTCLAG NSIGFSHSA WLVLPAEEEE LVEADEAGDP
RRASIEGRGD PEEPKSCDKT HTCPCPAPE LLGGPSVFLF PPKPKDTLMI
SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV
SVTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPS
RDELTKNQVS LTCLVKGFYP SDIAVEWESN GQPENNYKTT PVLDSGGSF
FLYSKLTVDK SRWQQGNVFS CSVMHEALHN HYTQKSLSL S PGK

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

Storage & Stability: Lyophilized samples are stable for greater than six months at -20°C to -80°C. Reconstituted sFGFR-3/Fc should be stored in working aliquots at -20°C. **Avoid repeated freeze/thaw cycles.**

SDS-PAGE analysis of Recombinant Human soluble FGFR-3/Fc produced in insect cells. Sample was loaded in 10% SDS-polyacrylamide gel under reducing condition and stained with Coomassie blue.



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