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Datasheet for ABIN1589735

FGFR3 Protein (Dimer, glycosylated, Soluble) (Fc Tag)

Overview

Quantity:	10 µg
Target:	FGFR3
Protein Characteristics:	Dimer, glycosylated, Soluble
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FGFR3 protein is labelled with Fc Tag.

Product Details

Purpose:	FGFR-3(IIIc)/Fc Chimera, soluble
Sequence:	ESLGTEQRVV GRAAEVPGPE PGQQEQLVFG SGDAVELSCP PPGGGPMGPT VVWKDGTGLV PSERVLVGPQ RLQVLNASHE DSGAYSCRQR LTQRVLCHFS VRVTDAPSSG DDEGEDAE DTGVDTGAPY WTRPERMDKK LLAVPAANTV RFRCPAAGNP TPSISWLKNG REFRGEHRIG GIKLRHQQWS LVMESVPSD RGNVYTCVVN KFGSIRQTYT LDVLESPHR PILQAGLPAN QTAVLGSDVE FHCKVYSDAQ PHIQWLKHE VNGSKVGPDG TPYVTVLKTA GANTTDKELE VLSLHNVTFE DAGEYTCLAG NSIGFSHSA WLVLPAEEE LVEADEAGDP RRASIEGRGD PEEPKSCDKT HTCPCPAPE LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV SVTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPS RDELTKNQVS LTCLVKGFYP SDIAVEWESN GQPENNYKTT PPVLDSGDSF FLYSKLTVDK SRWQQGNVFS CSVMHEALHN HYTKSLSLS PGK
Specificity:	Chromosomal location:4p16.3

Product Details

Characteristics:	Length (aa):593
Purity:	> 90 % by SDS-PAGE

Target Details

Target:	FGFR3
Alternative Name:	FGFR-3 (FGFR3 Products)

Background: 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 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.

Synonyms: FGFR3, ACH, CEK2, JTK4, CD333, HSFGR3EX

Molecular Weight:	65.1 kDa
Gene ID:	2261
NCBI Accession:	NM_000142 , NP_000133
UniProt:	P22607

Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Stem Cell Maintenance](#), [Growth Factor Binding](#)

Application Details

Application Notes:	Measured by its binding ability to FGF-2 in a functional ELISA. Recombinant human soluble FGFR-3(IIIc)/Fc Chimera binds to immobilized recombinant human FGF-2 (ABIN1589672).
Comment:	Soluble Receptors
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
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 50 µg/mL.
Buffer:	PBS
Storage:	-20 °C,-80 °C
Storage Comment:	Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted sFGFR-3/Fc should be stored in working aliquots at -20°C.
Expiry Date:	6 months