

FGFR-2(IIIb)/Fc Chimera Active Protein | FGFR-2 active protein

Recombinant Human Soluble FGFR-2(IIIb)Fc Chimera

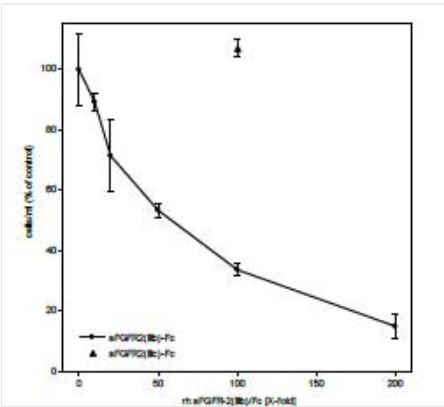
CATALOG # AAA79321	HOST Insect cells
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PRODUCT SYNONYMS

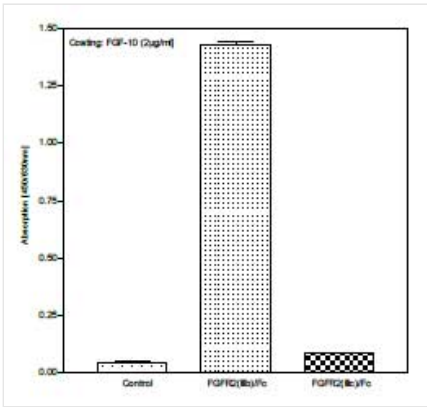
FGFR-2(IIIb)/Fc Chimera; Recombinant Human Soluble FGFR-2(IIIb)Fc Chimera; Fibroblast growth factor receptor 2; BFR-1; FGFR2IIIb; KGFR; FGFR-2 active protein

PRODUCT SPECIFICATIONS

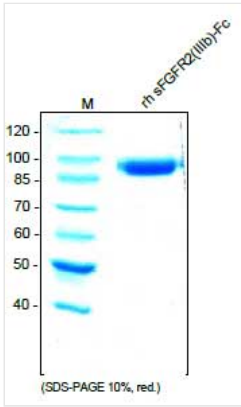
Host	Insect cells
Purity/Purification	> 90% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	RPSFSLVEDT TLEPEEPPTK YQISQPEVYV AAPGESLEVR CLLKDAAVIS WTKDGVHLGP NNRTVLIGEY LQIKGATPRD SGLYACTASR TVDSETWYFM VNVTDAISSG DEDDDTDGAE DFVSENSNKR APYWTNTEKM EKRLHAVPAA NTVKFRCPAG GNPMPMTMRWL KNGKEFKQEH RIGGYKVRNQ HWSLIMESVV PSDKGNITCV VENEYSINH TYHLDVVERS PHRPILQAGL PANASTVVG DVEFCKVYSD AQPHIQWIKH VEKNGSKYGP DGLPYLKVLK HSGINSSNAE VLALFNVTEA DAGEYICKVS NYIGQANQSA WLTVLPKQQA PGREKEITAS PDYLEDPRRA SIEGRGDPEE PKSCDKTHTC PCPAPELLGG PSVFLFPPKP KDTLMISRTPEVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLNQDQWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSREL TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTTTPVL DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM HEALHNHYTQ KSLSLSPGK
Sequence Length	603
Buffer	PBS
Stabilizer	None
Reconstitution	The lyophilized sFGFR-2(IIIb)/Fc is soluble in water and most aqueous buffers and should be reconstituted to a concentration not lower than 50?g/ml.
Biological Activity	(1) The activity of sFGFR-2(IIIb)/Fc was determined by its ability to inhibit the FGF10-induced proliferation of 4MBr-5 cells. (2) Measured by its binding ability in a functional ELISA. Recombinant human soluble FGFR-2(IIIb)/Fc Chimera bind to immobilized recombinant human FGF-10 .
Preparation and Storage	Lyophilized samples are stable for greater than six months at –20 degree C to –70 degree C. Reconstituted sFGFR-2(IIIb)/Fc should be stored in working aliquots at -20 degree C.



Application Data
Inhibition of FGF10-induced proliferation of 4MBr-5 cells by recombinant human soluble FGFR-2(IIIb)/Fc. sFGFR-2(IIIc)/Fc which do not bind FGF10 show no effect.



Application Data
Functional ELISA with recombinant human sFGFR-2(IIIb)/Fc Chimera. Recombinant human FGF-10 was coated at 2ug/ml and sFGFR2(IIIb)/Fc and sFGFR2(IIIc)/Fc were added [1ug/ml each]. FGF-10 binds only to FGFR2(IIIb) and not to FGFR2(IIIc).



SDS-PAGE
SDS-PAGE analysis of recombinant human soluble FGFR-2(IIIb)/Fc produced in insect cells. Sample was loaded in 10% SDS-polyacrylamide gel under reducing condition and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for FGFR-2 active protein	Background: Recombinant human soluble FGFR-2 (IIIb) was fused via a Xa cleavage site with the Fc part of human IgG1. Human recombinant soluble FGFR-2 (IIIb) is a disulfide-linked homodimeric protein. In the reduced form the glycosylated subunits of sFGFR-2 (IIIb)/human Fc chimera display a molecular mass of about 90 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.
Product Categories/Family for FGFR-2 active protein	Recombinant Protein; Soluble Receptors; FGFR-2 (IIIb) /Fc Chimera; soluble

NCBI AND UNIPROT INFORMATION

NCBI GI #	221316639
NCBI GeneID	2263
NCBI Accession #	NP_075259.4
NCBI GenBank Nucleotide #	NM_000141.4
UniProt Accession #	P21802; P18443; Q01742; Q12922; Q14300; Q14301; Q14302; Q14303; Q14304; B4DFC2; E7EVR6; E9PCRO
Molecular Weight	~90 kDa
NCBI Official Full Name	fibroblast growth factor receptor 2 isoform 1
NCBI Official Synonym Full Names	fibroblast growth factor receptor 2
NCBI Official Symbol	FGFR2
NCBI Official Synonym Symbols	BEK; JWS; BBDS; CEK3; CFD1; ECT1; KGFR; TK14; TK25; BFR-1; CD332; K-SAM
NCBI Protein Information	fibroblast growth factor receptor 2
UniProt Protein Name	Fibroblast growth factor receptor 2
UniProt Gene Name	FGFR2
UniProt Synonym Gene Names	BEK; KGFR; KSAM; FGFR-2; KGFR
UniProt Entry Name	FGFR2_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.

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Online datasheet: <https://www.aaabiotech.com/insect-active-protein/fgfr-2-iiib-fc-chimera/79321>