

FGFR-1/Fc Chimera, soluble Active Protein | FGFR-1/Fc Chimera active protein

Human FGFR-1/Fc Chimera, soluble

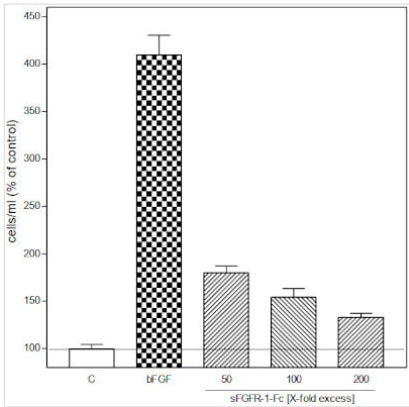
CATALOG # AAA79238	HOST Insect Cells	REACTIVITY Human
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PRODUCT SYNONYMS

FGFR-1/Fc Chimera; soluble; Human FGFR-1/Fc Chimera; Recombinant Human Soluble FGFR-1/Fc Chimera; Fibroblast growth factor receptor 1; Fms-like tyrosine kinase 2; CD331; FGFR-1/Fc Chimera active protein

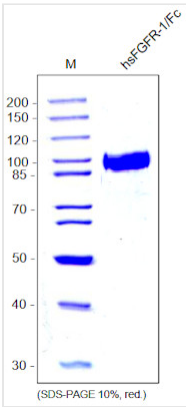
PRODUCT SPECIFICATIONS

Host	Insect Cells
Reactivity	Human
Purity/Purification	> 90% by SDS-PAGE & silver stain
Form/Format	Lyophilized ; Buffer: PBS
Sequence	RPSPTLPEQA QPWGAPVEVE SFLVHPGDLL QLRCLRRDDV QSINWLRDGV QLAESNRTRI TGEEVEVQDS VPADSGLYAC VTSSPSGSDT TYFSVNVSDA LPSEDDDDDD DDSSSEEKET DNTKPNRMPV APYWTSPEKM EKKLHAVPAA KTVKFKCPSS GTPNPTLRWL KNGKEFKPDH RIGGYKVRYA TWSIIMDSVV PSDKGNITCI VENEYGSINH TYQLDVVERS PHRPILQAGL PANKTVALGS NVEFMCKVYS DPQPHIQWLK HIEVNGSKIG PDNLPLYVQIL KTAGVNNTDK EMEVLHLRNV SFEDAGEYTC LAGNSIGLSH HSAWLTVLEA LEERPAVMTS PLYLEDPRRA SIEGRGDPEE PKSCDKTHTC PPCAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTPP VLDSDGSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKSLSLSPG K
Sequence Length	601
Length (aa)	601
Reconstitution	The lyophilized sFGFR-1/Fc is soluble in water and most aqueous buffers and should be reconstituted in PBS or medium to a concentration not lower than 50ug/mL.
Biological Activity	Determined by its ability to inhibit human FGF basic-dependent proliferation on HUVE cells.
Preparation and Storage	Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted sFGFR-1/Fc should be stored in working aliquots at -20°C.



Application Data

Inhibition of the basic FGF-induced proliferation of HUVE cells by recombinant human sFGFR-1-Fc. HUVECs were stimulated with 10 ng/ml bFGF, the soluble receptor was added with a 50 - 200X excess



SDS-PAGE

SDS-PAGE analysis of recombinant human soluble FGFR-1/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-1/Fc Chimera active protein	Recombinant human soluble FGFR-1 alpha (IIIc) was fused via a Xa cleavage site with the Fc part of human IgG1. Human recombinant soluble FGFR-1 alpha (IIIc)/Fc is a disulfide-linked heterodimeric protein. In the reduced form the glycosylated subunits of sFGFR-1 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 of the Ig-like domains 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-1/Fc Chimera active protein	Soluble receptors
References	1. Eisemann et al, Oncogene 6:1195, 1991 2. Givol et al., FASEB J 6:3362, 1992

NCBI AND UNIPROT INFORMATION

NCBI GI #	291327489
NCBI GeneID	2260
NCBI Accession #	NP_075598
NCBI GenBank Nucleotide #	NM_023110
UniProt Accession #	P11362; P17049; Q02063; Q02065; Q14306; Q14307; Q53H63; Q59H40; Q5BJG2; A8K6T9; A8K8V5; C1KBH8
Molecular Weight	67 kDa
NCBI Official Full Name	fibroblast growth factor receptor 1 isoform 10
NCBI Official Synonym Full Names	fibroblast growth factor receptor 1
NCBI Official Symbol	FGFR1

NCBI Official Synonym Symbols	CEK; FLG; HH2; OGD; FLT2; KAL2; BFGFR; CD331; FGFBR; FLT-2; HBGFR; N-SAM; FGFR-1; HRTFDS; bFGF-R-1
NCBI Protein Information	fibroblast growth factor receptor 1; FGFR1/PLAG1 fusion; proto-oncogene c-Fgr; FMS-like tyrosine kinase 2; hydroxyaryl-protein kinase; fms-related tyrosine kinase 2; heparin-binding growth factor receptor; basic fibroblast growth factor receptor 1
UniProt Protein Name	Fibroblast growth factor receptor 1
UniProt Gene Name	FGFR1
UniProt Synonym Gene Names	BFGFR; CEK; FGFBR; FLG; FLT2; HBGFR; FGFR-1; BFGFR; bFGF-R-1; FLT-2
UniProt Entry Name	FGFR1_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://stage.aaabiotech.com/insect-cells-human-active-protein/fgr-1-fc-chimera-soluble/79238>