Datasheet for ABIN1589526

FGFR1 Protein (Dimer, glycosylated, Soluble) (Fc Tag)

3 Publications

Go to Product page

Overview

Quantity:	10 µg
Target:	FGFR1
Protein Characteristics:	glycosylated, Dimer, Soluble
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FGFR1 protein is labelled with Fc Tag.

Product Details

Purpose:	FGFR-1/Fc Chimera, soluble
Sequence:	RPSPTLPEQA QPWGAPVEVE SFLVHPGDLL QLRCRLRDDV QSINWLRDGV QLAESNRTRI TGEEVEVQDS VPADSGLYAC VTSSPSGSDT TYFSVNVSDA LPSSEDDDDD DDSSSEEKET DNTKPNRMPV APYWTSPEKM EKKLHAVPAA KTVKFKCPSS GTPNPTLRWL KNGKEFKPDH RIGGYKVRYA TWSIIMDSVV PSDKGNYTCI VENEYGSINH TYQLDVVERS PHRPILQAGL PANKTVALGS NVEFMCKVYS DPQPHIQWLK HIEVNGSKIG PDNLPYVQIL KTAGVNTTDK EMEVLHLRNV SFEDAGEYTC LAGNSIGLSH HSAWLTVLEA LEERPAVMTS PLYLEDPRRA SIEGRGDPEE PKSCDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTPP VLDSDGSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKSLSLSPG K
Specificity:	Chromosomal location:8p12

Product Details

Characteristics:	Length (aa):601
Purity:	> 90 % by SDS-PAGE

Target Details

Target:	FGFR1
Alternative Name:	FGFR-1 (FGFR1 Products)
Background:	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 ß 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: FGFR1, CEK, FLG, OGD, FLT2, KAL2, BFGFR, CD331, FGFBR, FLT-2, HBGFR, N-SAM, FGFR-1, bFGF-R-1
Molecular Weight:	67.0 kDa
Gene ID:	2260
NCBI Accession:	NM_023110, NP_075598
UniProt:	P11362
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Sensory Perception of Sound, Stem Cell Maintenance, S100 Proteins

Application Details

Application Notes:	Determined by its ability to inhibit human FGF basic-dependent proliferation on HUVE cells
Comment:	Soluble Receptors
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
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 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-1/Fc should be stored in working aliquots at -20°C.
Expiry Date:	6 months

Publications

Product cited in:	Lohr, Mock, Beckhove, Herold-Mende: "Endothelial Cells Derived from Non-malignant Tissues Are of Limited Value as Models for Brain Tumor Vasculature." in: **Anticancer research**, Vol. 35, Issue 5, pp. 2681-90, (2015) (PubMed). Kim, Al-Hilal, Chung, Kim, Ryu, Son, Byun: "Antiangiogenic and anticancer effect of an orally active low molecular weight heparin conjugates and its application to lung cancer chemoprevention." in: **Journal of controlled release : official journal of the Controlled Release Society**, Vol. 199, pp. 122-31, (2015) (PubMed). Teodorczyk, Kleber, Wollny, Sefrin, Aykut, Mateos, Herhaus, Sancho-Martinez, Hill, Gieffers, Sykora, Weichert, Eisen, Trumpp, Sprick, Bergmann, Welsch, Martin-Villalba: "CD95 promotes metastatic spread via Sck in pancreatic ductal adenocarcinoma." in: **Cell death and differentiation**, Vol. 22, Issue 7, pp. 1192-202, (2015) (PubMed).