Datasheet for ABIN1589737

FGFR4 Protein (Dimer, glycosylated, Soluble) (Fc Tag)

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Overview

Quantity:	10 µg
Target:	FGFR4
Protein Characteristics:	glycosylated, Dimer, Soluble
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FGFR4 protein is labelled with Fc Tag.

Product Details

Purpose:	FGFR-4/Fc Chimera, soluble
Sequence:	LEASEEVELE PCLAPSLEQQ EQELTVALGQ PVRLCCGRAE RGGHWYKEGS RLAPAGRVRG WRGRLEIASF LPEDAGRYLC LARGSMIVLQ NLTLITGDSL TSSNDDEDPK SHRDPSNRHS YPQQAPYWTH PQRMEKKLHA VPAGNTVKFR CPAAGNPTPT IRWLKDGQAF HGENRIGGIR LRHQHWSLVM ESVVPSDRGT YTCLVENAVG SIRYNYLLDV LERSPHRPIL QAGLPANTTA VVGSDVELLC KVYSDAQPHI QWLKHIVING SSFGADGFPY VQVLKTADIN SSEVEVLYLR NVSAEDAGEY TCLAGNSIGL SYQSAWLTVL PEEDPTWTAA APEARYTDTR SDKTHTCPPC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSREEMT KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTPPMLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGK
Specificity:	Chromosomal location:5q35.1-qter

Product Details

Characteristics:	Length (aa):578
Purity:	> 90 % by SDS-PAGE

Target Details

Target:	FGFR4
Alternative Name:	FGFR-4 (FGFR4 Products)
Background:	Recombinant human soluble FGFR-4 was fused with the Fc-part of human IgG1. Human recombinant soluble FGFR-4/Fc is a disulfide-linked heterodimeric protein. In the reduced form the glycosylated subunits of sFGFR-4 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. All four genes for FGF-receptors encode proteins with an N-terminal signal peptide, three immunoglobulin (Ig)-like domains, an acid-box region containing a run of acidic residues between the IgI and IgII domains, a transmembrane domain and the split tyrosine-kinase domain. 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. The complex patterns of expression of these receptors as well as the specificity of their interactions with the various FGF ligand family members are under investigation. Synonyms: FGFR4, TKF, JTK2, CD334
Molecular Weight:	64.4 kDa
Gene ID:	2264
NCBI Accession:	NM_002011, NP_002002

Target Details

UniProt:	P22455
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Carbohydrate Homeostasis, Growth Factor Binding

Application Details

Application Notes:	Measured by its ability to bind recombinant human FGF-2 in a functional solid phase binding assay.
Comment:	Soluble Receptors
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	The lyophilized sFGFR-4/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
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted sFGFR-4/Fc should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles!
Expiry Date:	6 months