

32-6974: FGFR3 Human, His

Alternative Name : CD333 Antigen, HSFGR3EX, EC 2.7.10, CD333, CEK2, ACH, Fibroblast Growth Factor Receptor 3, EC 2.7.10.1, FGFR-3, JTK4, Fibroblast Growth Factor Receptor 3 Variant 4, Achondroplasia, Thanatophoric Dwarfism, Hydroxyaryl-Protein Kinase, Tyrosine Kinase JTK4.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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.

FGFR3 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 592 amino acids (23-375a.a.) and having a molecular mass of 65.1kDa (Molecular size on SDS-PAGE will appear at approximately 70-100kDa). FGFR3 is expressed with a 239 amino acid hIgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : FGFR3 protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : ESLGTEQRVW GRAAEVPGPE PGQQEQLVFG SGDAVELSCP PPGGGPMGPT VVWKDGTGLV
PSERVLVGPQ RLQVLNASHE DSGAYSCRQR LTQRVLCHFS VRVTDAPSSG DDEDEGEDEAE
DTGVDTGAPY WTRPERMDKK LLAVPAANTV RFRCPAAGNP TPSISWLKNG REFRGEHRIG
GIKLRHQQWS LVMESVPSD RGNVYTCVVEN KFGSIRQTYT LDVLESPHR PILQAGLPAN QTAVLGSDVE
FHCKVYSDAQ PHIQWLKHVE VNGSKVGPDG TPYVTVLKTA GANTTDKELE VLSLHNVTFE DAGEYTCLAG
NSIGFSHSA WLWVLPAAAA LVEADEAGSV YAGLEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL
MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHG
DWLNGKEYKC KVSNAKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW
ESNGQPENNY KTTTPVLDSG GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL
SLSPGKHHHH HH.Å