
Product Data Sheet

Product Name: FGFR2 Human, (22-289)

Cat. No.: GP26188

Batch No.: 1

Product Data

Purity >98% Source Sf9,Baculovirus cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms EC 2.7.10, FGFR-2, BFR-1, CD332, BBDS, CEK3, ECT1, TK14, TK25, CFD1, KSAM, JWS, Fibroblast Growth Factor Receptor 2, Keratinocyte Growth Factor Receptor, Bacteria-Expressed Kinase, EC 2.7.10.1, K-SAM, KGFR, BEK, Protein Tyrosine Kinase, Receptor Like 14, BEK Fibroblast Growth Factor Receptor, Craniofacial Dysostosis 1, Jackson-Weiss Syndrome, Pfeiffer Syndrome, Crouzon Syndrome, CD332 Antigen.

Amino Acid Sequence RPSFSLVEDT TLEPEDAISS GDEDDTDGA EDFVSENSNN KRAPYWTNTE KMEKRLHAVPAANTVKFRCP AGGNPMPTMR WLKNGKEFKQ EHRIGGYKVR NQHWSLIMES VVPSDKGNYTCVVENEYGSINHTYHLDDVVE RSPHRPILQA GLPANASTVV GGDVEFVCKV YSDAQPHIQWIKHVEKNGSK YGPDGLPYLK VLKHSNGINSS NAEVLALFNV TEADAGEYIC KVSNYIGQANQSAWLTVLPK QQAPGREKEI TASP DYLELE PKSCDKTHTC PPCPAPELLG GPSVFLFPPKPKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVLTVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLTCLVKGFYPSD IAVEWESNGQ PENNYKTTTP VLDS DGSFFL YSKLTVDKSR WQQGNV FSCSVMHEALHNHY TQKSLSLSPG KHHHHHH.

Formulation FGFR2 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Introduction

Fibroblast Growth Factors (FGFs) comprise a family of at least 18 structurally related proteins that take part in a multitude of physiological and pathological cellular processes, including differentiation, cell growth, angiogenesis, wound healing and tumorigenesis. The biological activities of the FGFs are mediated by a family of type I

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transmembrane tyrosine kinases which undergo dimerization and autophosphorylation after ligand binding. 4 different genes encoding related FGF receptors. 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. 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 2 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.

Stability

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.

Background

FGFR2 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 507 amino acids (22-289 a.a.) and having a molecular mass of 56.8 kDa. FGFR2 is expressed with a 239 amino acid hlgG-His-Tag at C-Terminus and purified by proprietary chromatographic techniques.

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