Recombinant Human Fibroblast Growth Factor Receptor 2, Fc-tagged

Cat. No. FGFR2-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Soluble FGFR-2a (IIIc) Fc Chimera fused with Xa cleavage site with the Fc part of human IgG1 produced in baculovirus is a heterodimeric, glycosylated, Polypeptide chain and having a molecular mass of 195 kDa. The FGFR2 is purified by proprietary chromatographic techniques.
Species	Human
Source	Insect Cells
Description	Fibroblast Growth Factors (FGFs) comprise a family of at least eighteen structurally realted proteins that are involved in a multitude of physiological and pathological cellular processes, including cell growth, differentation, angiogenesis, wound healing and tumorgenesis. The biological activities of the FGFs are mediated by a family if type I transmembrane tyrosine kinases which undergo dimerization and autophosphorylation after ligand binding. Four distinct genes encoding closely related FGF receptors, FGFR-1to -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 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

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	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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	CD332 was lyophilized from a concentrated (1 mg/ml) sterile solution containing no additives.
Solubility	It is recommended to reconstitute the lyophilized FGFR-2 in sterile PBS not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Determined by its ability to inhibit human FGF acidic-dependent proliferation on R1 cells. The ED50 for this effect is typically at 15.0-30.0 ng/ml.
Storage	Lyophilized FGFR2A although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution FGFR2 should be stored at 4℃ between 2-7 days and for future use below -18℃. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	FGFR2 fibroblast growth factor receptor 2 [Homo sapiens]
Synonyms	FGFR2; fibroblast growth factor receptor 2; BEK; JWS; CEK3; CFD1; ECT1; KGFR; TK14; TK25; BFR-1; CD332; K-SAM; FLJ98662; FGF receptor;

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	OTTHUMP00000020624; OTTHUMP00000020626; soluble FGFR4 variant 4; bacteria-expressed kinase; hydroxyaryl-protein kinase; keratinocyte growth factor receptor; BEK fibroblast growth factor receptor; protein tyrosine kinase, receptor like 14; EC 2.7.10.1; craniofacial dysostosis 1; Jackson-Weiss syndrome; Crouzon syndrome; Pfeiffer syndrome; FGFR-2;CD_antigen;CD332; Keratinocyte growth factor receptor 2; KSAM; OTTHUMP00000020621; OTTHUMP00000020629; FGF receptor
Gene ID	2263
mRNA Refseq	NM_000141
Protein Refseq	NP_000132
MIM	176943
UniProt ID	P21802
Chromosome Location	10q26
Pathway	Endocytosis; MAPK signaling pathway; Pathways in cancer; Prostate cancer; Regulation of actin cytoskeleton; Signaling by FGFR
Function	ATP binding; fibroblast growth factor receptor activity; heparin binding; nucleotide binding; protein binding; receptor activity; transferase activity

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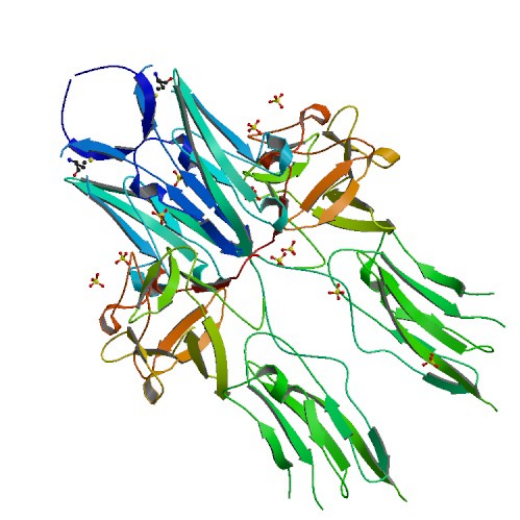
PDB rendering based on 1djs.



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