

California Bioscience

83103 Avenue 48, Ste.1B #204 Coachella, CA 92236 USA Phone : +1.6268339877 Email : info@cali-bio.com

Product Datasheet

Product Name	Fibroblast Growth Factor Receptor 1 Fc Chimera Human Recombinant
Cata No	CB500836
Source	Insect Cells
Synonyms	FGFR-1, bFGF-R, C-FGR, CD331, fms-related tyrosine kinase 2, Pfeiffer syndrome,
	CEK, FLG, FLT2, KAL2, BFGFR, FGFBR, HBGFR, FGFR1/FGFR1OP2 FUSION
	GENE, FGFR1/ZNF198 FUSION GENE, FLG FGFR1/BCR FUSION GENE, FLG
	protein, FMS-LIKE GENE, N-sam tyrosine kinase, basic fibroblast growth factor
	receptor 1.

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 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.

Soluble FGFR-1a (IIIc) Fc Chimera Human Recombinant fused with Xa cleavage site with the Fc part of human IgG_1 produced in baculovirus is a heterodimeric, glycosylated, Polypeptide chain and having a molecular mass of 190 kDa. The FGFR1 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

Determined by its ability to inhibit human FGF acidic-dependent proliferation on R1 cells. The ED_{50} for this effect is typically at 15.0-30.0 ng/ml.

Purity

Greater than 90.0% as determined by: (a)Analysis by RP-HPLC. (b)Analysis by SDS-PAGE.

Formulation

CD331 was lyophilized from a concentrated (1 mg/ml) sterile solution containing no additives.

Reconstitution

It is recommended to reconstitute the lyophilized bFGF-R in sterile PBS not less than 100 μ g/ml, which can then be further diluted to other aqueous

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solutions.

Stability

Lyophilized FGFR1A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGFR1 should be store **Parod betty Datasbacet** and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles**.