



Product Datasheet

Product Name	Fibroblast Growth Factor Receptor 3 Fc Chimera Human Recombinant
Cata No	CB500838
Source	<i>Insect Cells</i>
Synonyms	Achondroplasia, Thanatophoric Dwarfism, CD333, ACH, CEK2, JTK4, HSFGR3EX, FGFR3.

Description

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 α isoform, or only IgII and IgIII, referred to as the β isoform. Only the α 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-3a (IIIc) Fc Chimera Human Recombinant 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 190 kDa.

The FGFR3 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 ED₅₀ 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

CD333 was lyophilized from a concentrated (1 mg/ml) sterile solution containing no additives.

Reconstitution

It is recommended to reconstitute the lyophilized FGFR-3 in sterile PBS not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized FGFR3A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGFR3 should be stored at 4°C between 2-7 days

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and for future use below
-18°C.

For long term storage it is recommended to add a

carrier protein (0.1% HSA) **Product Datasheet**
Please prevent freeze-thaw cycles.

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