

Recombinant Protein Technical Manual

Recombinant Human FGFR3/CD333 Protein (Fc Tag)(Active) RPES2716

Product Data:

Product SKU: RPES2716 **Size:** 10μg

Species: Human Cells

Uniprot: P22607

Protein Information:

Molecular Mass: 64.8 kDa

AP Molecular Mass: 9510 kDa

Tag: C-Fc

Bio-activity: Measured by its ability to inhibit FGF acidic-dependent proliferation of BALB/c 3T3

cells. The ED50 for this effect is 18.2 ng/ml.

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per μg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room

temperature for 3 weeks. Reconstituted protein solution can be stored at $4-7^{\circ}$ C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Fibroblast growth factor receptor 3; FGFR-3; FGFR3; JTK4;

IIIc;ACH;CD333;CEK2;HSFGFR3EX

Immunogen Information:

Sequence: Glu23-Gly375

Background:

Fibroblast growth factors (FGFs) are involved in a multitude of physiological and pathological cellular processes. 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, FGF R1-4, are known. All four genes for FGF Rs encode proteins with an N-terminal signal peptide, three immunoglobulin (Ig)-like domains, an acid-box region containing a run of acidic residues between the IgI and IgII domains, a transmembrane domain and the split tyrosine-kinase domain. Multiple forms of FGF R1-3 are generated by alternative splicing of the mRNAs. A frequent splicing event involving FGF R1 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 FGF R3 and FGF R4. Additional splicing events for FGF R1-3, 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). The complex patterns of expression of these receptors as well as the specificity of their interactions with the various FGF ligand family members are under investigation.