

Recombinant Human FGFR-3/CD333 Protein

Catalog No.: RP00144 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2261	P22607

Tags

C-hFc&His

Synonyms

ACH;CD333;CEK2;HSFGFR3EX;JTK4;FGFR3

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

FGFR3, also known as CD333, is a member of the fibroblast growth factor receptor (FGFR) family, with its amino acid sequence being highly conserved between members and among divergent species. FGFR family members differ from one another in their ligand affinities and tissue distribution. FGFRs are transmembrane catalytic receptors that have intracellular tyrosine kinase activity. A full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds acidic and basic fibroblast growth hormone and plays a role in bone development and maintenance. Mutations in FGFR3 gene lead to craniosynostosis and multiple types of skeletal dysplasia.

Basic Information

Description

Recombinant Human FGFR-3/CD333 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Glu23-Gly375) of human FGFR3/CD333 (Accession #NP_000133.1) fused with an Fc, 6xHis tag at the C-terminus.

Bio-Activity

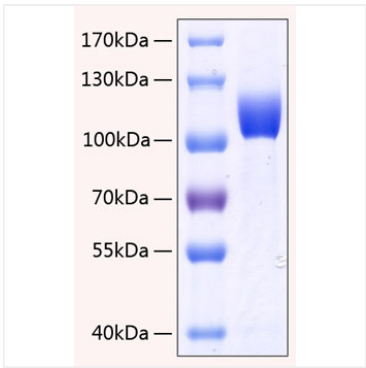
Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human FGF1 at 5 μg/mL (100 μL/well) can bind Recombinant Human FGFR3 with a linear range of 0.5-1.5 μg/mL.

Storage

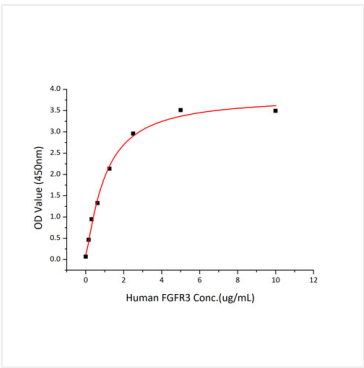
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

Validation Data



Recombinant Human FGFR-3/CD333
Protein was determined by SDS-PAGE with
Coomassie Blue, showing a band at 95-105
kDa.



Immobilized Recombinant Human FGF1 at
5µg/mL (100 µL/well) can bind
Recombinant Human FGFR3 with a linear
range of 0.5-1.5 µg/mL.