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Biotinylated Recombinant Human FGFR-3 alpha (IIIb)/CD333 Protein

Catalog No.: RP00463B Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	2261	P22607-2

Tags
C-His&Avi

Synonyms
ACH; CD333; CEK; CEK2; EC 2.7.10; FGF R3; FGFR3; HSFGFR3EX; JTK4

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
41.4 kDa	65-75 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

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.FGFR3 is tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of cell proliferation, differentiation and apoptosis. Plays an essential role in the regulation of chondrocyte differentiation, proliferation and apoptosis, and is required for normal skeleton development. Regulates both osteogenesis and postnatal bone mineralization by osteoblasts.

Basic Information

Description
Biotinylated Recombinant Human FGFR-3 alpha (IIIb)/CD333 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu23-Gly377) of Human FGFR3 alpha (IIIb) (Accession #P22607-2) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

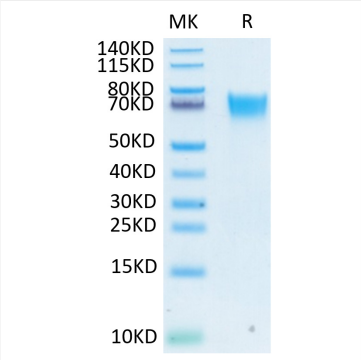
Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

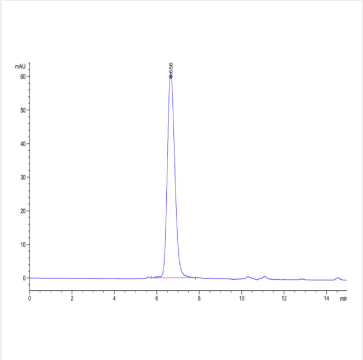
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

* 为了您的安全和健康，请穿实验服并戴一次性手套操作。

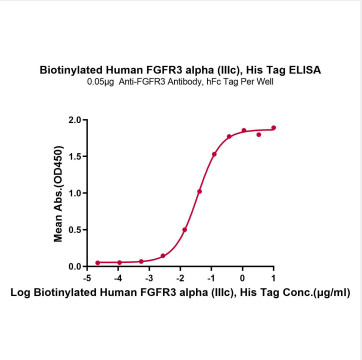
Validation Data



Biotinylated Recombinant Human FGFR-3 alpha (IIIb)/CD333 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Human FGFR3 alpha (IIIb) is greater than 95% as determined by SEC-HPLC.



Immobilized Anti-FGFR3 Antibody, hFc Tag at 0.5 μg/mL (100 μL/well) on the plate. Dose response curve for Biotinylated Human FGFR3 alpha (IIIc) , His Tag with the EC_{50} of 35.9ng/mL determined by ELISA.