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Recombinant Human FGFR-4/CD334 Protein

Catalog No.: RP00130 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	2264	P22455

Tags
C-hFc&His

Synonyms
CD334; JTK2; TKF;FGFR4;JTK2;TKF

Product Information

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

Calculated MW	Observed MW
65.30 kDa	90-110 kDa

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 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

The protein is a member of the family of carcinoembryonic antigen-related cell adhesion molecules (CEACAMs), which are used by several bacterial pathogens to bind and invade host cells. The encoded transmembrane protein directs phagocytosis of several bacterial species that is dependent on the small GTPase Rac. It is thought to serve an important role in controlling human-specific pathogens by the innate immune system. Alternatively spliced transcript variants have been described.

Basic Information

Description
Recombinant Human FGFR-4/CD334 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Leu22-Asp369) of human FGFR4/FGF Receptor 4 (Accession #NP_998812.1) fused with an Fc, 6×His tag at the C-terminus.

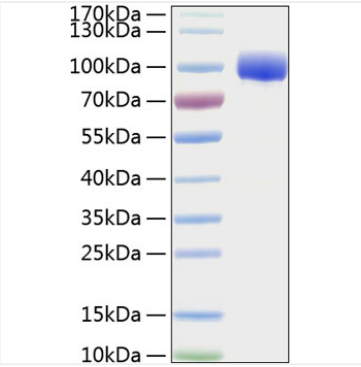
Bio-Activity
1.Measured by its binding ability in a functional ELISA. Immobilized recombinant human FGF2 at 1 μg/mL (100 μL/well) can bind recombinant human FGFR4 with a linear range of 30-125 ng/mL.|2.Measured by its binding ability in a functional ELISA. Immobilized recombinant human FGFR4 at 5 μg/mL (100 μL/well) can bind recombinant human FGF12 with a linear range of 35-100 ng/mL. 3.Measured by its ability to inhibit FGF-acidic dependent proliferation of Balb/c 3T3 mouse fibroblasts. The ED_{50} for this effect is typically 0.03-0.12 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

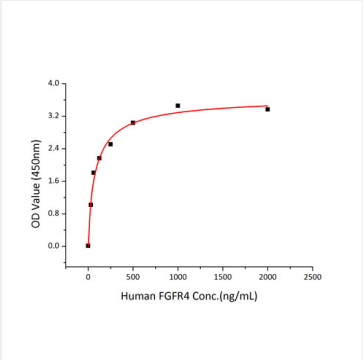
Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

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

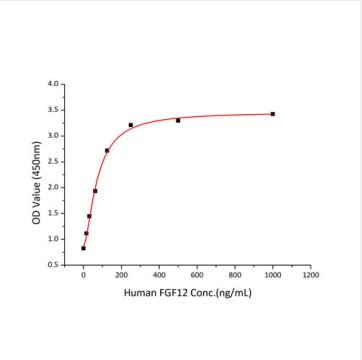
Validation Data



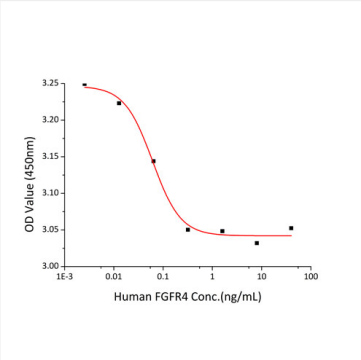
Recombinant Human FGFR-4/CD334 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant human FGF2 at 1 μg/mL (100 μL/well) can bind recombinant human FGFR4 with a linear range of 30-125 ng/mL.



Immobilized recombinant human FGFR4 at 5μg/mL (100 μL/well) can bind recombinant human FGF12 with a linear range of 35-100ng/mL.



Recombinant Human FGFR4 inhibits FGF-acidic dependent proliferation of Balb/c 3T3 mouse fibroblasts. The ED_{50} for this effect is typically 0.03-0.12 ng/mL.