

Recombinant Mouse FGFR-4/CD334 Protein

Catalog No.: RP01469 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	14186	Q03142

Tags

C-His

Synonyms

Fgfr-4;FGFR4;CD334;JTK2;MGC20292;TKF;FGFR4;Fgfr-4;FGFR4;CD334;JTK2;MGC20292;TKF;FGFR4

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
39.65 kDa	55-70 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.

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

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 Mouse FGFR-4/CD334 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu17-Asp366) of mouse FGFR4/FGF Receptor 4 (Accession #NP_032037.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to inhibit FGF acidic-dependent proliferation of Balba3T3 mouse fibroblast cells. The ED₅₀ for this effect is 38.74-154.96 ng/mL in the present of mouse FGF-1/aFGF (Catalog: RP00487), corresponding to a specific activity of 6.45×10³~2.58×10⁴ units/mg.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. 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.

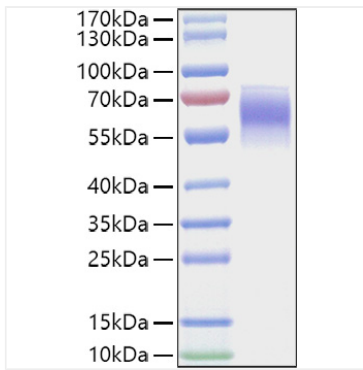
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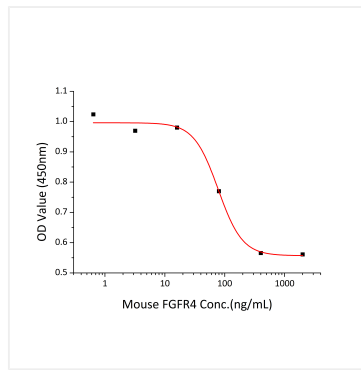
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Validation Data



Recombinant Mouse FGFR-4/CD334 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55-70kDa.



Recombinant Mouse FGFR-4/CD334 inhibit FGF acidic-dependent proliferation of Balba3T3 mouse fibroblast cells. The ED_{50} for this effect is 38.74-154.96 ng/mL in the present of mouse FGF-1/aFGF (Catalog: RP00487), corresponding to a specific activity of $6.45 \times 10^3 \sim 2.58 \times 10^4$ units/mg.