

Recombinant Human RNF43 Protein

Catalog No.: RP02777 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	54894	Q68DV7

Tags

C-hFc

Synonyms

URCC; SSPCS; RNF124

Product Information

Source	Purification
HEK293 cells	> 95% as determined by HPLC

Calculated MW	Observed MW
45.8 kDa	55-60 kDa

Endotoxin

<1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube 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.

Contact

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Background

RNF43 (E3 ubiquitin-protein ligase RNF43 or RING-type E3 ubiquitin transferase RNF43) functions as a tumor suppressor, by exerting a predominant negative feedback mechanism in the Wnt/β-catenin signaling pathway. RNF43 inhibits Wnt/beta-catenin signaling by ubiquitinating Frizzled receptor and targeting it to the lysosomal pathway for degradation.

Basic Information

Description

Recombinant Human RNF43 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly24-Tyr197) of human RNF43 (Accession #NP_001292473.1) fused with a hFc tag at the C-terminus.

Bio-Activity

1. Immobilized Human R spondin 1, His Tag at 5 μg/mL (100μL/well) on the plate. Dose response curve for Human RNF34, hFc Tag with the EC₅₀ of 0.4 μg/mL determined by ELISA. 2. Immobilized Human R-Spondin 3, His Tag at 1 μg/mL (100μL/well) on the plate. Dose response curve for Human RNF43, hFc Tag with the EC₅₀ of 16.1 ng/mL determined by ELISA.

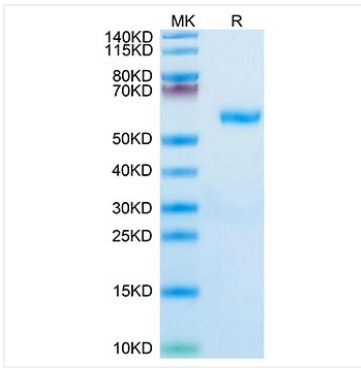
Storage

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

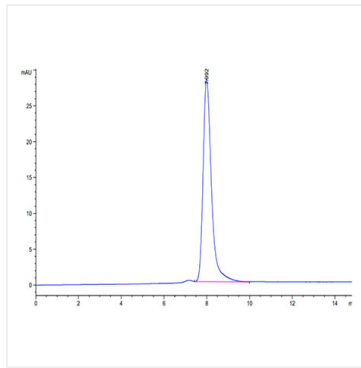
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

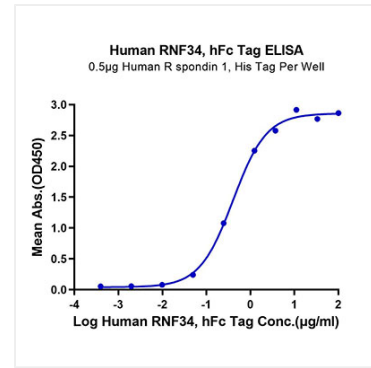
Validation Data



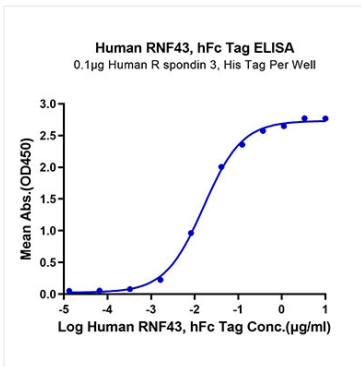
Human RNF43 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human RNF43 is greater than 95% as determined by SEC-HPLC.



Immobilized Human R spondin 1, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human RNF34, hFc Tag with the EC₅₀ of 0.4µg/ml determined by ELISA.



Immobilized Human R-Spondin 3, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human RNF43, hFc Tag with the EC₅₀ of 16.1ng/ml determined by ELISA.