Human RNF43 Protein

Cat. No. RNF-HM143

Description

Source	Recombinant Human RNF43 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Gly24-Tyr197.
Accession	Q68DV7-1
Molecular Weight	The protein has a predicted MW of 20.14 kDa. Due to glycosylation, the protein migrates to 28-38 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

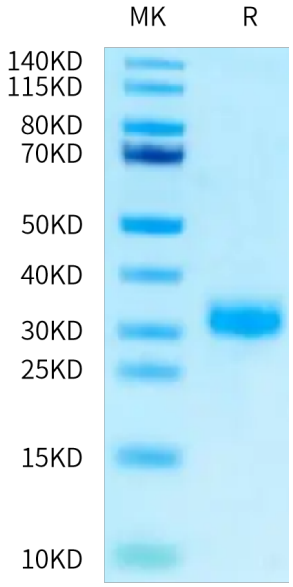
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

Bis-Tris PAGE



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

SEC-HPLC

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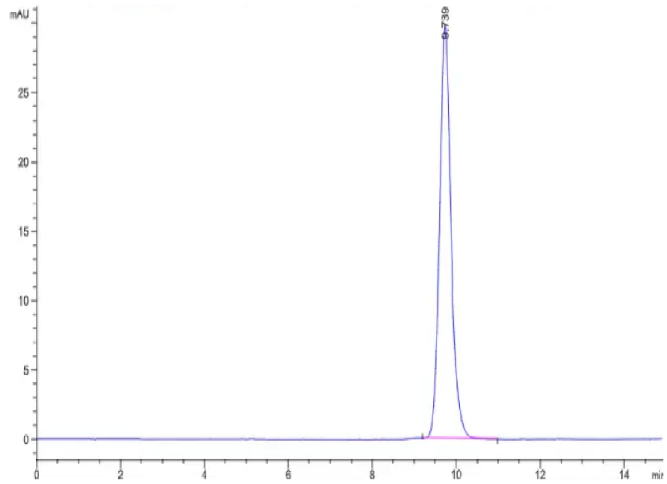
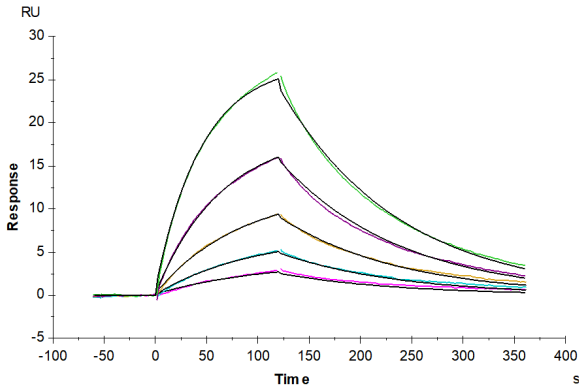
Assay Data



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

SPR Data



Human R-Spondin 3, His Tag immobilized on CM5 Chip can bind Human RNF43, His Tag with an affinity constant of 0.255 μM as determined in SPR assay (Biacore T200).