

## RNF43 Protein, Mouse, Recombinant (hFc)

### General Information

Synonyms:	Rnf43;RING finger protein 43;RING-type E3 ubiquitin transferase RNF43;E3 ubiquitin-protein ligase RNF43
Protein Construction:	Gly24-Tyr197
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q5NCP0
Molecular Weight:	45.6 kDa (predicted). Due to glycosylation, the protein migrates to 53-60 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Mouse R spondin 1, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Mouse RNF43, hFc Tag with the EC50 of 0.40µg/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

Reference

Serra S, Chetty R. Rnf43. J Clin Pathol. 2018 Jan;71(1):1-6. doi: 10.1136/jclinpath-2017-204763. Epub 2017 Oct 10. PMID: 29018044.

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