# Mouse R spondin 1/RSPO1 Protein

**Cat. No.** RS1-MM101

## Description

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|---|---|
| **Source** | Recombinant Mouse R spondin 1/RSPO1 Protein is expressed from HEK293 with His tag at the C-Terminus. |
| | It contains Ser21-Gln265. |
| **Accession** | Q9Z132 |
| **Molecular Weight** | The protein has a predicted MW of 28.3 kDa. Due to glycosylation, the protein migrates to 45-48 kDa based on Tris-Bis PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Tris-Bis PAGE |

## Formulation and Storage

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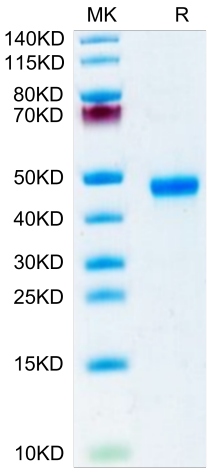
|---|---|
| **Formulation** | Lyophilized from 0.22 μm filtered solution in 20mM MES, 150mM NaCl, 200mM Arginine (pH 5.5). Normally 8% trehalose / 8% mannitol is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in 20mM MES, 150mM NaCl, 200mM Arginine (pH 5.5). |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3-6 months after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

The R-spondins are members of a superfamily of thrombospondin type 1 repeat (TSR-1)-containing proteins. The prototype member (discovered in 1971) was isolated from platelets that had been stimulated with thrombin, and was therefore designated 'thrombin-sensitive protein.

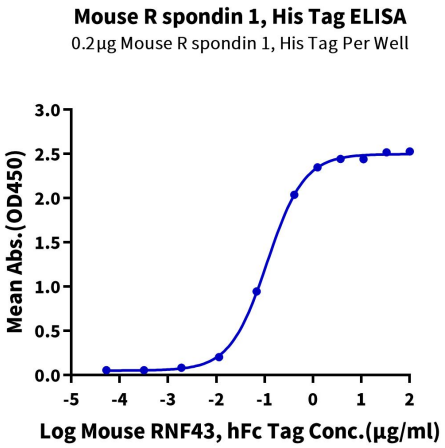
## Assay Data

### Tris-Bis PAGE




Mouse R spondin 1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data




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 0.11μg/ml determined by ELISA.

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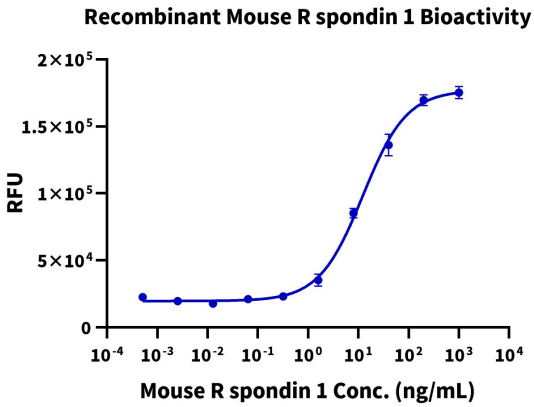
## Assay Data

### Cell Based Assay




Measured by its ability to induce Topflash reporter activity in HEK293T human embryonic kidney cells. The ED50 for this effect is 10 - 50 ng/mL in the presence of 5 ng/mL recombinant Human Wnt Surrogate-Fc Fusion (WNT-HM23A) (QC Test).