Mouse R spondin 1/RSPO1 Protein

Cat. No. RS1-MM101



Description	
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 Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
Formulation and Storage	
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.

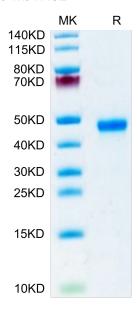
Formulation	Lyophilized from 0.22 μm filtered solution in 20mM MES, 150mM NaCl, 200mM Arginine (pH 5.5). Normally 8% trehalose / 8% mannitol is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/ml is recommended. 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 receipt80°C for 3 months 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

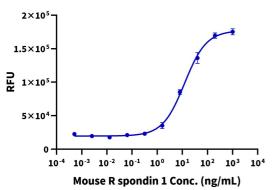
Bis-Tris PAGE



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

Cell Based Assay

Recombinant Mouse R spondin 1 Bioactivity



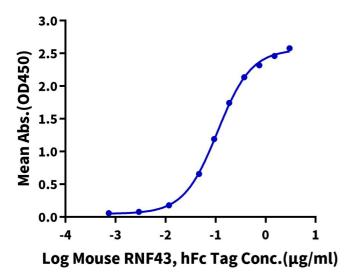
Measured by its ability to induce Topflash reporter activity in HEK293T human embryonic kidney cells. The ED50 for this effect is 2 - 20 ng/mL in the presence of 5 ng/mL recombinant Human Wnt Surrogate-Fc Fusion (WNT-HM23A) (QC Test).

Assay Data



Mouse R spondin 1, His Tag ELISA

0.5μg Mouse R spondin 1, His Tag Per Well



Immobilized Mouse R spondin 1, His Tag at $5\mu g/ml$ (100 $\mu l/Well$) on the plate. Dose response curve for Mouse RNF43, hFc Tag with the EC50 of $0.11\mu g/ml$ determined by ELISA.