Human R spondin 1/RSPO1 Protein

Cat. No. RS1-HM101



Description	
Source	Recombinant Human R spondin 1/RSPO1 Protein is expressed from CHO with His tag at the C-Terminus.
	It contains Arg31-Ala263.
Accession	Q2MKA7
Molecular Weight	The protein has a predicted MW of 27.3 kDa. Due to glycosylation, the protein migrates to 38-42 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.05 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend

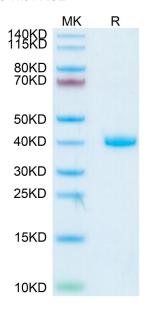
Background

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.

to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Assay Data

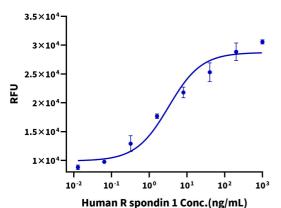
Bis-Tris PAGE



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

Cell Based Assay

Recombinant Human R spondin 1 Bioactivity



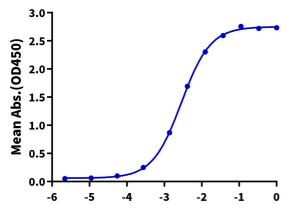
Measured by its ability to induce Topflash reporter activity in HEK293T human embryonic kidney cells. The ED50 for this effect is 1.0 - 10.0 ng/mL in the presence of 5 ng/mL recombinant Human Wnt Surrogate-Fc Fusion (WNT-HM23A) (QC Test).

Assay Data

ELISA Data

Human R spondin 1, His Tag ELISA

0.05μg Human R spondin 1, His Tag Per Well



Log Anti-R spondin 1 Antibody, hFc Tag Conc.(µg/ml)

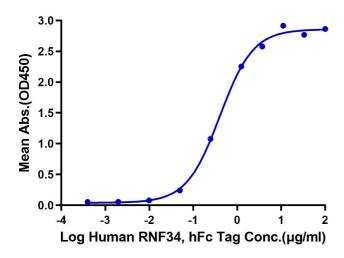
Immobilized Human R spondin 1, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-R spondin 1 Antibody, hFc Tag with the EC50 of 2.9ng/ml determined by ELISA (QC Test).

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ELISA Data

Human R spondin 1, His Tag ELISA

0.5µg Human R spondin 1, His Tag Per Well



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

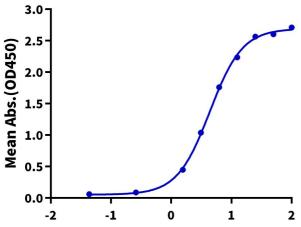
ELISA Data

Assay Data



Human R spondin 1, His Tag ELISA

0.5μg Human LRP-6, mFc Tag Per Well



Log Human R spondin 1, His Tag Conc.(μg/ml)

Immobilized Human LRP-6, mFc Tag at $5\mu g/ml$ (100 μ l/well) on the plate. Dose response curve for Human R spondin 1, His Tag with the EC50 of $4.4\mu g/ml$ determined by ELISA.