Human R spondin 3/RSPO3 Protein

Cat. No. RSP-HM103

Description

Source	Recombinant Human R spondin 3/RSPO3 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Gln22-Val146.
Accession	Q9BXY4-1
Molecular Weight	The protein has a predicted MW of 14.95 kDa. Due to glycosylation, the protein migrates to 20-25 kDa and 26-32 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

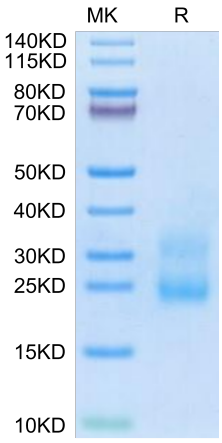
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled 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

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.

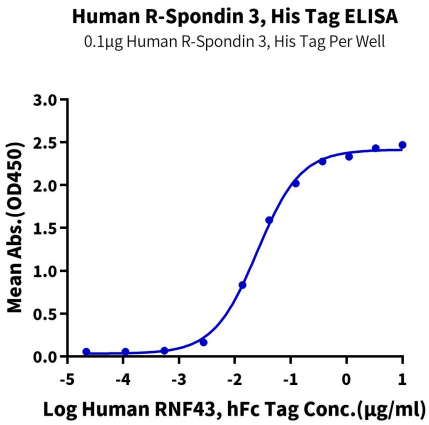
Assay Data

Bis-Tris PAGE



Human R spondin 3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data



Immobilized Human R-Spondin 3, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human RNF43, hFc Tag with the EC50 of 25.2ng/ml determined by ELISA (QC Test).

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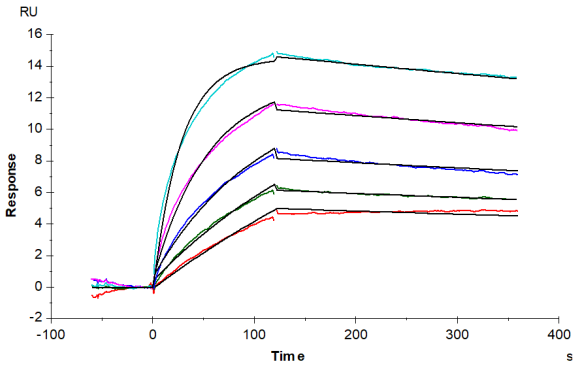
Assay Data

SPR Data



Human LGR-5, hFc Tag captured on CM5 Chip via Protein A can bind Human R-Spondin 3, His Tag with an affinity constant of 0.59 nM as determined in SPR assay (Biacore T200) (Routine Test).