

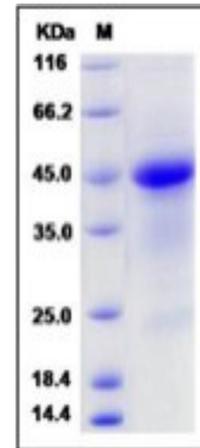
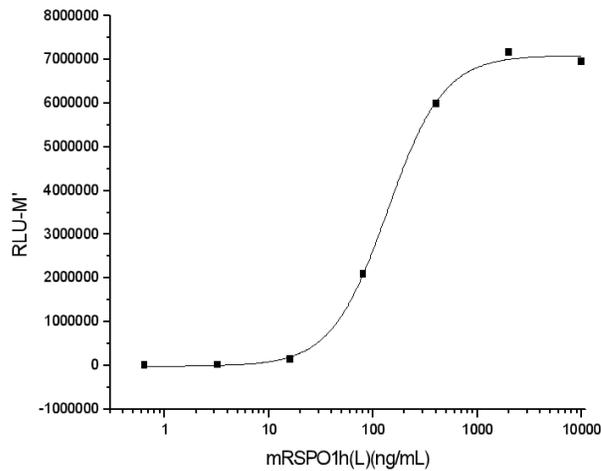
Rspo1

Recombinant Mouse R-Spondin 1 / RSPO1 (His Tag)

Catalog No.	CRM586A-His CRM586B-His	Quantity:	20 µg 100 µg
Alternate Names:	R-spondin-1, Cysteine-rich and single thrombospondin domain-containing protein 3, Cristin-3, mCristin-3, Roof plate-specific spondin-1		
Description:	RSPO1 gene is a member of the R-spondin family. It encodes RSPO1 which is known as a secreted activator protein with two cystein-rich, furin-like domains and one thrombospondin type 1 domain. In mice, RSPO1 induces the rapid onset of crypt cell proliferation and increases intestinal epithelial healing, providing a protective effect against chemotherapy-induced adverse effects. This protein is an activator of the beta-catenin signaling cascade, leading to TCF-dependent gene activation. RSPO1 acts both in the canonical Wnt/beta-catenin-dependent pathway and in non-canonical Wnt signaling pathway, probably by acting as an inhibitor of ZNRF3, an important regulator of the Wnt signaling pathway. It also acts as a ligand for frizzled FZD8 and LRP6.		
UniProt ID:	Q9Z132		
Accession Number:	NP_619624.2		
Protein Construction:	A DNA sequence encoding the full length of mouse RSPO1 (Met 1-Gln 265) was fused with a polyhistidine tag at the C-terminus.		
Source:	CHO Stable Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The secreted rmRSPO1 consists of 256 aa with a predicted MW of 28.5 kDa and migrates at ~44 kDa in SDS-PAGE under reducing conditions, due to glycosylation.		
Purity:	> 95 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	Measured by its ability to induce activation of β-catenin response in a Topflash Luciferase assay using HEK293T human embryonic kidney cells. The ED50 for this effect is typically 0.1-0.9 µg/ml in the presence of 5 ng/mL recombinant mouse Wnt3a.		
Predicted N-terminal:	Ser 21		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

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SDS-PAGE



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