

## Active Recombinant Human RSPO1 Protein, His-tagged

Cat. No. RSPO1-053H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human RSPO1 Protein(NP_001033722.1) (Met 1-Ala 263) fused with His tag at C-terminal was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Met 1-Ala 263
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4
<b>Bio-activity</b>	<ol style="list-style-type: none"> <li>1. Measured by its binding ability in a functional ELISA. Immobilized human RSPO1 at 20 µg/ml (100 µl/well) can bind human LIMP2 with a linear range of 32-800 ng/ml.</li> <li>2. Measured by its binding ability in a functional ELISA. Immobilized human RSPO1 at 20 µg/ml (100 µl/well) can bind mouse CD36 with a linear range of 6.4-800 ng/ml.</li> <li>3. Measured by its ability to induce activation of βcatenin 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.</li> </ol>
<b>Molecular Mass</b>	The secreted recombinant human RSPO1 comprises 254 amino acids with a predicted molecular mass of 28.2 kDa. As a result of glycosylation, rhRSPO1 migrates as an approximately 42 kDa band in SDS-PAGE under reducing conditions.
<b>Endotoxin</b>	< 1.0 EU per

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	µg of the protein as determined by the LAL method
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	RSPO1 R-spondin 1 [ Homo sapiens ]
<b>Official Symbol</b>	RSPO1
<b>Synonyms</b>	RSPO1; R-spondin 1; R spondin homolog (Xenopus laevis); R-spondin-1; FLJ40906; RSPONDIN; R-spondin homolog; roof plate-specific spondin-1; RSPO; CRISTIN3; RP11-566C13.1;
<b>Gene ID</b>	284654
<b>mRNA Refseq</b>	NM_001038633
<b>Protein Refseq</b>	NP_001033722
<b>MIM</b>	609595
<b>UniProt ID</b>	Q2MKA7

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