

**PRODUCT INFORMATION**

<b>Target</b>	RSPO1
<b>Synonyms</b>	R-spondin-1;hRspo1
<b>Description</b>	Recombinant human RSPO1(21-263) protein with C-terminal 6×His tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	Q2MKA7
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-6×His Tag
<b>Molecular Characterization</b>	RSPO1(Ser21-Ala263) 6×His tag
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 27.6 kDa after removal of the signal peptide. The apparent molecular mass of RSPO1(21-263)-His is approximately 35-55 kDa due to glycosylation.
<b>Purity</b>	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<b>Storage&amp;Shipping</b>	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
<b>Background</b>	This gene encodes a secreted activator protein with two cysteine-rich, furin-like domains and one thrombospondin type 1 domain. The encoded protein is a ligand for leucine-rich repeat-containing G-protein coupled receptors (LGR proteins) and positively regulates the Wnt signaling pathway. In mice, the protein induces the rapid onset of crypt cell proliferation and increases intestinal epithelial healing, providing a protective effect against chemotherapy-induced adverse effects. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



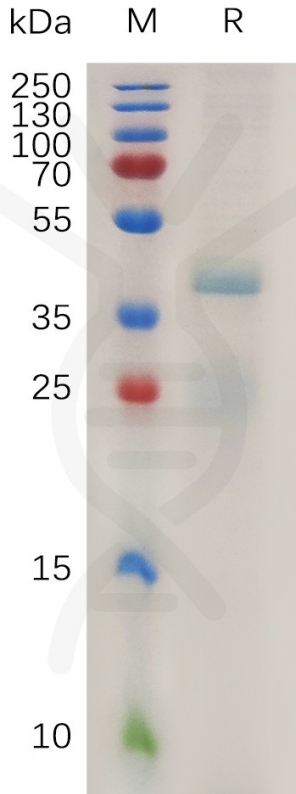


Figure 1. Human RSPO1(21-263) Protein, His Tag on SDS-PAGE under reducing condition.

### Human RSPO1(21-263), His Tagged protein ELISA

0.2  $\mu$ g of Human RSPO1(21-263), His tagged protein per well

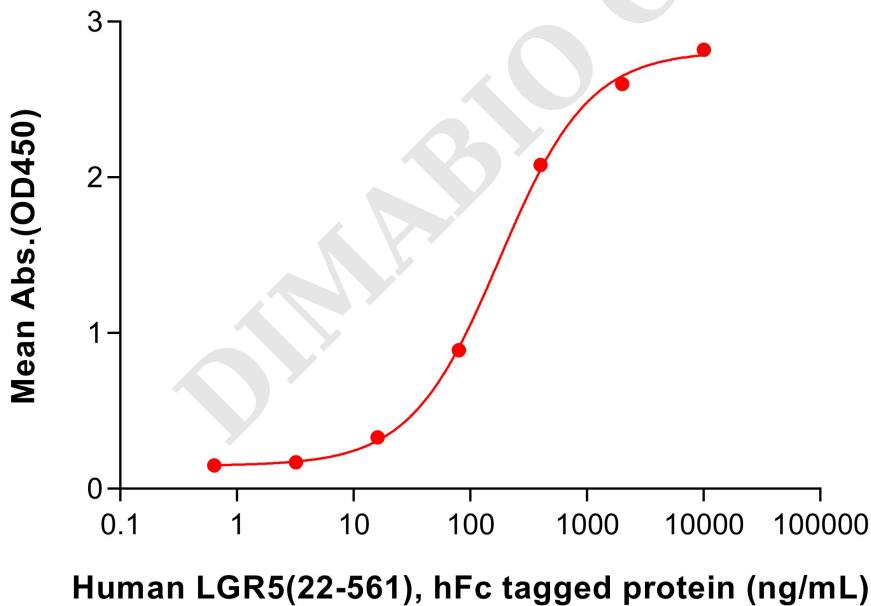


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Human RSPO1(21-263) Protein, His Tag (PME100779) can bind Human LGR5(22-561) Protein, hFc Tag (PME101756) in a linear range of 80-400 ng/mL.

