PRODUCT INFORMATION

Target	RSPO1
Synonyms	R-spondin-1;hRspo1
Description	Recombinant human RSPO1(21-263) protein with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	Q2MKA7
Expression Host	HEK293
Tag	C-6×His Tag
Molecular Characterization	RSPO1(Ser21-Ala263) 6×His tag
Molecular Weight	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.
Purity	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	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.
Storage&Shipping	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.
Background	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]
Usage	Research use only
Conjugate	Unconjugated

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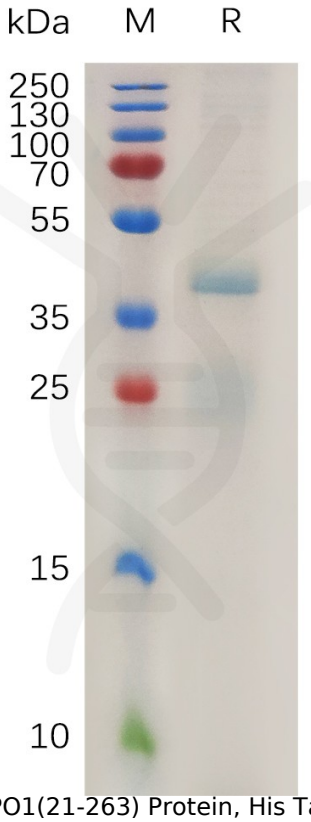


Figure 1. Human RSPO1(21-263) Protein, His Tag on SDS-PAGE under reducing condition.

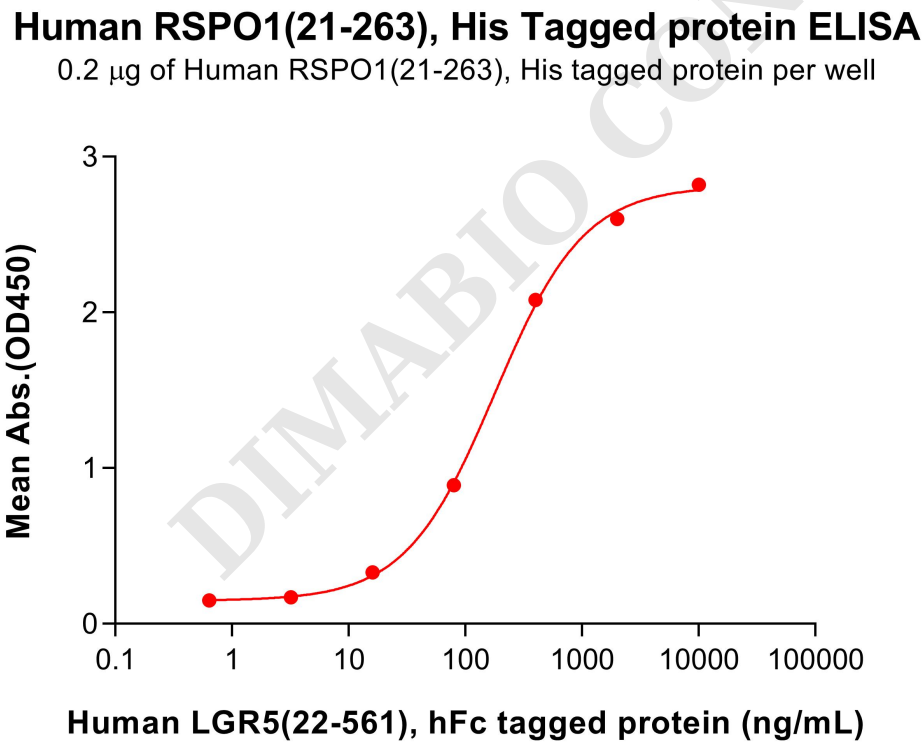


Figure 2. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Human RSPO1(21-263) Protein, His Tag (PME100779) can bind Human LGR5(22-561) Protein, hFc Tag (PME101756) in a linear range of 80–400 ng/mL.

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