Recombinant Human RSPO1 protein, His & T7-tagged

Cat. No. RSPO1-1942H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RSPO1 aa. (Ser21~Ala135 (Accession # Q2MKA7)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser21~Ala135
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.5kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

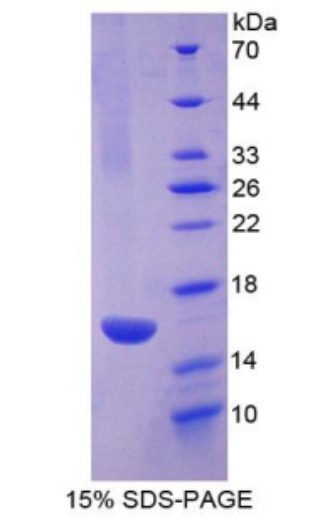
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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 500mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	8.9

GENE INFORMATION

Gene Name	RSPO1 R-spondin 1 [Homo sapiens (human)]
Official Symbol	RSPO1
Synonyms	RSPO1; R-spondin 1; RSPO; CRISTIN3; R-spondin-1; R-spondin homolog; roof plate-specific spondin-1
Gene ID	284654
mRNA Refseq	NM_001038633.3
Protein Refseq	NP_001033722.1

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UniProt ID	Q2MKA7
SDS-PAGE	 15% SDS-PAGE

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