

## Recombinant Human RSPO1 Protein, His-tagged

Cat. No. RSPO1-422H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human RSPO1 protein with His tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	263
<b>Description</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.
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	27.6 kDa
<b>AA Sequence</b>	MRLGLCVVALVLSWTHLTISSRGIKGRQRRISAEGSQACAKGCELCSEVNGCLKCS PKLFILLERNDIRQVGVCLPSCPPGYFDARNPDMNKCIKCKIEHCEACFSHNFCTKCK EGLYLHKGRCYPACPEGSSAANGTMECSSPAQCEMSEWSPWGPCSKKQQLCGFR RGSEERTRRVLHAPVGDHAACSDTKETRRCTVRRVPCPEGQKRRKGGQGRRENA NRNLARKESKEAGAGSRRRKGGQQQQQQGTVGPLTSAGPA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	> 98%
<b>Applications</b>	WB; ELISA; FACS; FC
<b>Stability</b>	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
<b>Storage</b>	At -20 centigrade.
<b>Concentration</b>	1 mg/mL
<b>Storage Buffer</b>	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
<b>Reconstitution</b>	Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

<b>Gene Name</b>	RSPO1 R-spondin 1 [ Homo sapiens (human) ]
<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

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mRNA Refseq	NM_001038633
Protein Refseq	NP_001033722
MIM	609595
UniProt ID	Q2MKA7

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