

Recombinant Human RSPO1 Protein, His-tagged

Cat. No. RSPO1-421H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human RSPO1 protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	263
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	Lyophilized
Molecular Mass	16.7 kDa
AA Sequence	MRLGLCVVALVLSWTHLTISSRGIKGRQRRISAEGSQACAKGCELCSEVNGCLKCS PKLFILLERNDIRQVGVCPLPSCPPGYFDARNPDMNKCIKCKIEHCEACFSHNFCTKCK EGLYLHKGRCYPACPEGSSAANGTMECSSPAQCEMSEWSPWGPCSKKQQLCGFR RGSEERTRRVLHAPVGDHAACSDTKETRRCTVRRVPCPEGQKRRKGGQGRRENA NRNLARKESKEAGAGSRRRKGGQQQQQQGTVGPLTSAGPA

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Purity	> 98%
Applications	WB; ELISA; FACS; FC
Stability	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.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	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

Gene Name	RSPO1 R-spondin 1 [Homo sapiens (human)]
Official Symbol	RSPO1
Synonyms	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;
Gene ID	284654

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mRNA Refseq	NM_001038633
Protein Refseq	NP_001033722
MIM	609595
UniProt ID	Q2MKA7

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