

# Recombinant Human R-spondin-1/RSP01 Protein

Catalog No.: RP00602 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	284654	Q2MKA7

### Tags

C-6×His

### Synonyms

RSP01;CRISTIN3;RSP0

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4. Contact us for customized product form or formulation.

### Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

## Background

RSP01 is a secreted protein, containing 2 FU(furin-like) repeats and 1 TSP type-1 domain and belonging to the R-spondin family. RSP01 is required for the early development of gonads, regardless of sex. It has been found in mice only eleven days after fertilization. To induce cell proliferation, it acts synergistically with WNT4. They help stabilize β catenin, which activates downstream targets. RSP01 is necessary in female sex development. It augments the WNT/ β catenin pathway to oppose male sex development. In critical gonadal stages, between six and nine weeks after fertilization, the ovaries upregulate it while the testes downregulate it. RSP01 can potentially aid in the treatment of mucositis, which is characterized by inflammation of the oral cavity. This unfortunate condition often accompanies chemotherapy and radiation in cancer patients with head and neck tumors.

## Basic Information

### Description

Recombinant Human R-spondin-1/RSP01 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Arg31-Ala263) of human R-spondin-1/RSP01 (Accession #Q2MKA7) fused with a 6×His tag at the C-terminus.

### Bio-Activity

### Storage

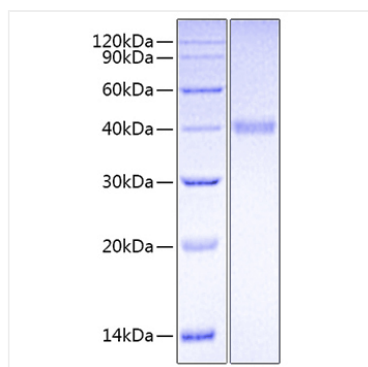
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## Validation Data

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Recombinant Human R-spondin-1/RSP01  
Protein was determined by SDS-PAGE  
under reducing conditions with Coomassie  
Blue.