

## 32-8013: Recombinant Human R-Spondin-1/RSP01 (C-6His)(Discontinued)

**Gene :** RSP01  
**Gene ID :** 284654  
**Uniprot ID :** Q2MKA7

### Description

Source: Human Cells.  
MW :26.6kD.

Recombinant Human R-spondin-1 is produced by our Mammalian expression system and the target gene encoding Arg31-Ala263 is expressed with a 6His tag at the C-terminus. 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 beta catenin, which activates downstream targets. RSP01 is necessary in female sex development. It augments the WNT/ beta 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.

### Product Info

**Amount :** 6His) / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.  
**Storage condition :** Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** RISAEGSQACAKGCELCSEVNGCLKCSPKLFILLERNDIRQVGVCLPSCP PGYFDARNPDMNKCICKIEHCEAC  
FSHNFCTKCKEGLYLHKGRCPACPEGSSAANGTMECSSPAQCCEMSEWSPWGPCSKKQQLCGFRRGSEERT  
RRVLHAPVGDHAACSDTKETRRTVRRVPCPEGQRRKGGQGRRENANRNLARKESKEAGAGSRRRKGGQQ  
QQQQGTGVLTSAGPAVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.