

## Recombinant Human RSPO1 (C-6His)

Catalog #	EPT157	
Expression Host	Human Cells	
DESCRIPTION	Recombinant Human R-spondin-1 is produced by our	
	Mammalian expression system and the target gene	
	encoding Ser21-Ala263 is expressed with a 6His tag at	
	the C-terminus.	
Accession	Q2MKA7	
Synonyms	RSPO1; R-spondin1; RP11-566C13.1; CRISTIN3;	
	FLJ40906; RSPO Rspo1; R-spondin; Rspondin;	
	RP23-325M14.2; Roof plate-specific spondin-1	
Mol Mass	27.8 KDa	
AP Mol Mass	40 KDa, reducing conditions	
Purity	Greater than 95% as determined by reducing	
	SDS-PAGE.	
Endotoxin	Less than 0.01 EU/ $\mu$ g as determined by LAL test.	
FORMULATION	Lyophilized from a 0.2 $\mu m$ filtered solution of PBS, pH	
	7.4.	
RECONSTITUTION	Always centrifuge tubes before opening.Do not mix by	



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vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING The product is shipped at ambient temperature.Upon receipt, store it immediately at the temperature listed below.

STORAGELyophilized protein should be stored at < -20 ° C,<br/>though stable at room temperature for 3 weeks.<br/>Reconstituted protein solution can be stored at 4-7°C<br/>for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

BACKGROUNDRSPO1 is a secreted protein, containing 2 FU(furin-like)<br/>repeats and 1 TSP type-1 domain and belonging to<br/>the R-spondin family. RSPO1 is required for the early<br/>development of gonads, regardless of sex. It has been<br/>found in mice only eleven days after fertilization. To<br/>induce cell proliferation, it acts synergistically with<br/>WNT4. They help stabilize β catenin, which activates



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downstream targets. RSPO1 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. RSPO1 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.

kDa	MK	R
120 90 60		
40		-
30	-	
20	-	
14	-	

SDS-PAGE



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