

Catalog Number: HZ-1328

## **Data Sheet**





Animal Component-Free

Human cell expressed

Tag-Free

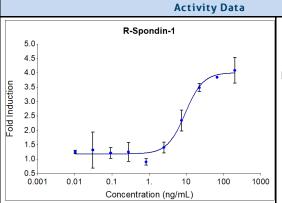
**Endotoxin Free** 

## **Product Description**

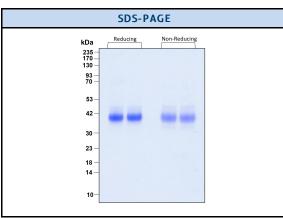
R-Spondin 1 is an approximately 40kDA, glycosylated protein that serves as a major agonist of the Wnt signaling pathway. It regulates the turnover of the LRP6 co-receptor by preventing its internalization by DKK-1. R-Spondin 1 plays several roles in embryonic development including sex phenotype reversal, female sex determination, and ovarian differentiation. It also promotes stem cell turnover in the mammary glands, intestine, colon, and kidneys. Increased R-Spondin 1 expression has been linked to growth and migration of ovarian cancer cells as well as decreased sensitivity of gliomas to radiation-based therapies (PMID: 17804805, 22439850, 32749219, 30572097).

Alternative Names	Roof-plate specific spondin-1, Critsin3, RSPO1,HRspo1
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived R-Spondin-1 protein

Specifications					
Test	Method	Specification			
Activity	Does-dependent production of luciferase in a HEK293 TCF/LEF Reporter cell line	4-20 ng/mL			
Molecular Mass	SDS-PAGE	36-50 kDa reduced and non-reduced, monomer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<1 EU/ µ g			



Recombinant human R-Spondin-1 (HZ-1328) induces dose-dependent luciferase production in a HEK293 TCF/LEF reporter cell line. Luciferase production was assessed by One-Step™ luciferase assay Kit. HEK293 TCF/LEF reporter cells were treated with increasing concentrations of recombinant R-Spondin-1 for 6 hours. The EC50 was determined using a 4-Parameter non-linear



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	Preparation				
Shipping Temperature ambient temperature					
Formulation 1x PBS, See Certificate of Analysis for details					
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.				

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
		Avoid repeated freeze-thaw cycles.	

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