

Catalog Number: HZ-1328

Data Sheet





Animal Component-Free

Human cell expressed

Tag-Free

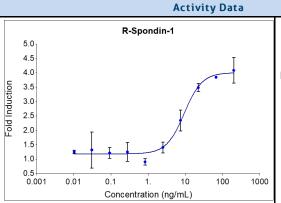
Endotoxin Free

Product Description

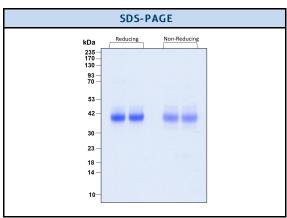
R-Spondin 1 is an approximately 40kDA, glycosylated protein that serves as a major agonist of the Wnt signaling pathway. It regulates the turnover of the LRP6 co-receptor by preventing its internalization by DKK-1. R-Spondin 1 plays several roles in embryonic development including sex phenotype reversal, 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-I protein	

Specifications					
Test	Method	Specification			
Activity	Does-dependent production of luciferase in a HEK293 TCF/LEF Reporter cell line	4-20 ng/mL EC50			
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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Document #: FR-QA118-101 Rev 0
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Proteintech Group, Inc.

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Preparation				
Shipping Temperature ambient temperature				
Formulation	rmulation 1x PBS, See Certificate of Analysis for details			
Reconstitution Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS pH 7 endotoxin-free recombinant human serum albumin (HSA).				

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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