

## Catalog Number: HZ-1328-GMP

## Data Sheet

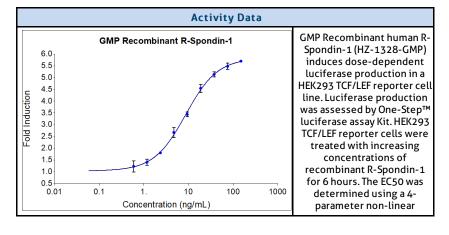


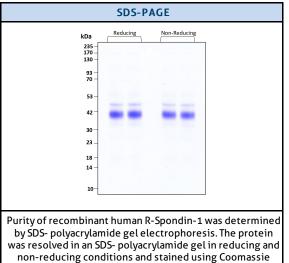
## HumanKine® recombinant human R-Spondin-1

protein- GMP grade

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				
	Q2MKA7				
Accession Number					
Accession Number Source	Human Embryonic Kidney cells (HEK293). HEK293-derived R-Spondin-1 protein				
	Human Embryonic Kidney cells (HEK293). HEK293-derived R-Spondin-1 protein human				

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	<0.1 EU/µg			
Mycoplasma	PCR	Not Detected			





blue.

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Preparation				
Shipping Temperature				
Formulation	ion 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 PE containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.				

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)	
	Lyophilized	-20°C to -80°C	Until Expiry Date	
Stability and Storage	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.			

## Proteintech GMP Quality Policy HumanKine® GMP Proteins

Invitro recombinant protein production can be prone to variability due to various reasons ranging from quality of raw materials to inconsistency in the process. Therefore, HumanKine®, a proteintech brand's GMP proteins are produced and tested under an ISO 13485 certified quality management system in a clean room facility. Proteintech manufactures the GMP HumanKine® products according to the applicable sections in the following documents: USP Chapter 1043 (Ancillary Materials for Cell, Gene, and Tissue-Engineered Products, USP Chapter 92 (Growth Factors and Cytokines Used in Cell Therapy Manufacturing), WHO TRS, No. 822, 1992 Annex 1 (Good Manufacturing Practices for Biological Products), Ph. Eur. General Chapter 5.2.12, and EudraLex - Volume 4 – Part IV (Guidelines on GMP specific to ATMPs). Proteintech strives to achieve the utmost quality GMP raw material ensuring all applicable guidelines are taken into consideration.

The QMS is built to provide our customers with consistent and pure product delivered by documented processes, qualified personnel, validated processes, qualified equipment, qualified vendors, and a stringent final product release process. Although the final product release process is important, Proteintech performs in-process QC steps after each major manufacturing stage. Production records and facilities may be available for an inspection by approved personnel.

Our GMP policy covers all the aspects of production; from raw materials, facility, equipment, and Instruments to training and personal hygiene of staff. It also guarantees that the process is explicit, validated and well documented for transparency and traceability.

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