

Catalog Number: HZ-1328-GMP

Data Sheet

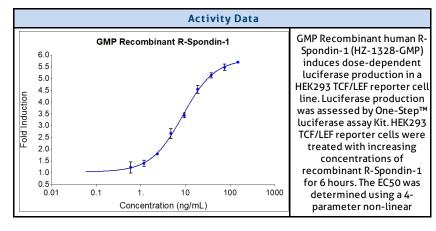


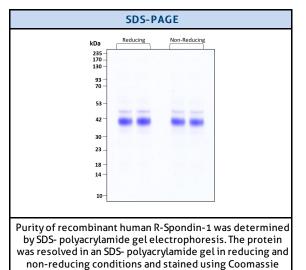
GMP HumanKine® R-Spondin-1 (Recombinant

Human)

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						
Accession Number	2QMKA7						
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived R-Spondin-1 protein						
Adventitious Virus	Master Cell Bank tested Negative for Adventitious Viruses						

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/ µ g			
Mycoplasma	PCR	Not Detected			





blue.

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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.			

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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