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## Product Data Sheet

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Product Name: RSPO1 Mouse  
 Cat. No.: GP24449  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	R-spondin-1; Cristin-3; mCristin-3; Roof plate-specificspondin-1; Rspo1; RSPO; R-spondin 1;R-spondin; Rspodin; CRISTIN3.		
Amino Acid Sequence	ADPSRGIKGRQRRISAEGS QACAKGCELC SEVNGCLKCS PKLFILLERN DIRQVGVCLP SCPPGYFDAR NPDMNKCIKCKIEHCEACFS HNFCTKCQEG LYLHKGRYCYP ACPEGSTAAN STMECGSPAQ CEMSEWSPWG PCSKKRKLKCGFRKGSEERTR RVLHAPGGDH TTCSDTKETR KCTVRRTPCP EGQKRRKGGQ GRRENANRHP ARKNSKEPGSNSRRHKGQQQ PQP GTTGPLT SVGPTWAQHH HHHH.		
Formulation	RSPO1 protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

### Introduction

R-Spondin-1(Rspo1) is a part of the Rspodin family. Rspo1 plays a role as an activator of the canonical Wnt signaling pathway by acting as a ligand for LGR4-6 receptors. Rspo1 induces the onset of crypt cell proliferation and increases intestinal epithelial healing effect. Rspo1 is negatively regulating the TGF-beta pathway.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

RSPO1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 254 amino acids (21-265a.a.) and having a molecular mass of 28.2kDa

**Caution: Product has not been fully validated for medical applications. For research use only.**

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(Molecular size on SDS-PAGE will appear at approximately 28-40kDa).RSPO1 is expressed with an 9 amino acid His tag atC-Terminus and purified by proprietary chromatographic techniques.

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