9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

RSPO1 Human

R-Spondin-1 Human Recombinant
RCP1933

Product Overview

Name	RSPO1 Human
Description	
R-Spondin-1 Human Recombinant	
Accession (Primary)	Q9Z132
Synonyms	
R-spondin-1, Cristin-3, mCristin-3, Roof plate-specific spondin-1, Rspo1, RSPO, R-spondin 1, R-spondin, Rspondin, CRISTIN3.	
Introduction	
R-Spondin-1 (Rspo1) is a part of the Rspondin 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.	
Source	
CHO cells.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a sterile (0.2 µm) filtered solution containing PBS.	
Stability	
Lyophilized RSPO1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution RSPO1 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
SRGIKGKRQR RISAEGSQAC AKGCELCSEV NGCLKCSPKL FILLERNDIR QVGVCLPSCP PGYFDARNPD MNKCIKCKIE HCEACFSHNF CTKCKEGLYL HKGRCYPACP EGSSAANGTM ECSSPAQCEM SEWSPWGPCS KKQQLCGFRR GSEERTRRVL HAPVGDHAAC SDTKETRRCT VRRVPCPEGQ KRRKGGQGRR ENANRNLARK ESKEAGAGSR RRKGQQQQQQ QGTVGPLTSA GPA.	

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Biological Activity

The ED 50 , as calculated by the Luciferase induction in HEK-293 STF cells in the presence of Murine Wnt-3a is 47.99ng/ml corresponding to a specific activity of 2.1 x 10^4 units/mg.

Solubility

It is recommended to reconstitute the lyophilized RSPO1in sterile 18MΩ-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

RSPO1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9Z132)