
Product Data Sheet

Product Name: RSPO1 Human
 Cat. No.: GP24448
 Batch No.: 1

Product Data

Purity	>98%	Source	CHO cells.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	R-spondin-1; Cristin-3; mCristin-3; Roof plate-specific spondin-1; Rspo1; RSPO; R-spondin 1; R-spondin; Rspodin; CRISTIN3.		
Amino Acid Sequence	RISAEGSQAC AKGCELCSEV NGCLKCSPKL FILLERNDIR QVGVCLPSCP PGYFDARNPD MNKCIKCKIE HCEACFSHNF CTKCKEGLYL HKGRCYPACP EGSSAANGTM ECSSPAQCEM SEWSPWGPCS KKQQLCGFRR GSEERTRRVL HAPVGDHAAC SDTKETRRCT VRRVPCPEGQ KRRKGGQGRR ENANRNLARK ESKEAGAGSR RRRKGGQQQQ QGTVGPLTSA GPA.		
Solubility	It is recommended to reconstitute the lyophilized RSPO1 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a sterile (0.2μm) filtered solution containing PBS.		

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.

Biological Activity

The ED₅₀, as calculated by the Luciferase induction in HEK-293 STF cells in the presence of Murine Wnt-3a is less than 50ng/ml corresponding to a specific activity which is >2.0 x 10⁴ units/mg.

Stability

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

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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.

Background

R-Spondin-1 Human Recombinant produced in CHO cells is a glycosylated monomer chain containing 233 amino acids and having a total molecular mass of 25.6kDa. RSPO1 is purified by proprietary chromatographic techniques.

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