

## 32-13390: RSPO1 Human

**Application :** Functional Assay

**Alternative Name :** R-spondin-1, Cristin-3, mCristin-3, Roof plate-specific spondin-1, Rspo1, RSPO, R-spondin 1, R-spondin, Rspondin, CRISTIN3.

### Description

Source: CHO cells.

Sterile Filtered White lyophilized (freeze-dried) powder.

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.

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.

### Product Info

**Amount :** 5 µg / 20 µg

**Purification :** Greater than 95.0% as determined by SDS-PAGE.

**Content :** The protein was lyophilized from a sterile (0.2µm) filtered solution containing PBS. It is recommended to reconstitute the lyophilized RSPO1 in sterile 18M Omega -cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Storage condition :** 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.

**Amino Acid :** RISAEGSQAC AKGCELCSEV NGCLKCSPKL FILLERNDIR QVGVCLPSCP PGYFDARNPD MNKCIKCKIE HCEACFSHNF CTKCKEGLYL HKGRCYPACP EGSSAANGTM ECSSPAQCEM SEWSPWGPCS KKQQLCGFRR GSEERTRRVL HAPVGDHAAC SDTKETRRCT VRRVPCPEQG KRRKGGQGRR ENANRNLARK ESKEAGAGSR RRRKGQQQQQ QGTVGPLTSA GPA.

### Application Note

The ED50, as calculated by the Luciferase induction in HEK-293 STF cells in the presence of Murine Wnt-3a is 24.7ng/ml corresponding to a specific activity of  $4.0 \times 10^4$  units/mg.