

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, Rspodin, CRISTIN3.

Description

Source: CHO cells.

Sterile Filtered White lyophilized (freeze-dried) powder.

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.

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 VRRVPCPEGQ
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 x 10⁴ units/mg.