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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 RSPO1in 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 RRKGQQQQQQ 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 10^4 units/mg.

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