# Recombinant Human R-Spondin1

*Catalog#:PCH2535*

## 概述（Summary）

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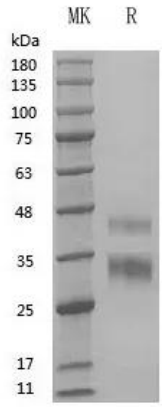
| **别称（Alternative Names）** | RSPO1; R-spondin1; RP11-566C13.1; CRISTIN3; FLJ40906; RSPO Rspo1; R-spondin; Rspondin; RP23-325M14.2; Roof plate-specific spondin-1 |
| **纯度（Purity）** | Greater than 95% as determined by reducing SDS-PAGE |
| **内毒素（Endotoxin level）** | ≤10 EU/mg |
| **蛋白构建（Construction）** | 【Ser21-Ala263】 |
| **Accession #** | Q2MKA7 |
| **表达宿主（Host）** | CHO |
| **种属（Species）** | Human |
| **预测分子量（Predicted MW）** | 26.7 kDa |
| **制剂（Form）** | Lyophilized from a 0.2 μm filtered solution of PBS,5% mannitol and 0.01% Tween 80, pH7.4 |
| **运输方式（Shipping）** | The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below. |
| **稳定性&储存（Stability &Storage）** | 12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles. |
| **复溶（Reconstitution）** | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| **背景介绍（References）** | RSPO1 is a secreted protein,containing 2 FU(furin-like) repeats and 1 TSP type-1 domain and belonging to the R-spondin family. RSPO1 is required for the early development of gonads, regardless of sex. It has been found in mice only eleven days after fertilization. To induce cell proliferation, it acts synergistically with WNT4. They help stabilize β catenin, which activates downstream targets. RSPO1 is necessary in female sex development. It augments the WNT/β catenin pathway |

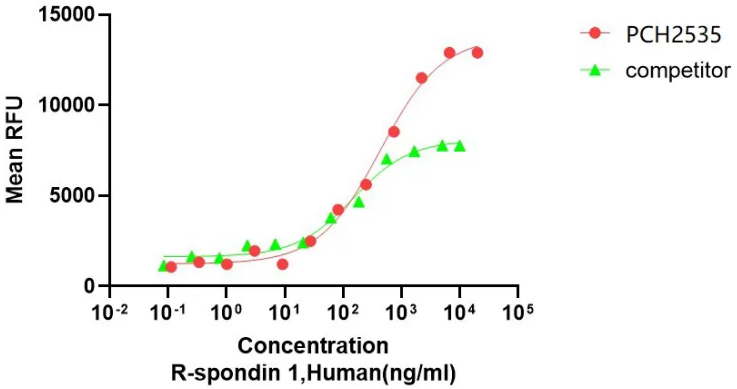
to oppose male sex development. In critical gonadal stages, between six and nine weeks after fertilization, the ovaries upregulate it while the testes downregulate it. RSPO1 can potentially aid in the treatment of mucositis, which is characterized by inflammation of the oral cavity. This unfortunate condition often accompanies chemotherapy and radiation in cancer patients with head and neck tumors.

## 电泳图（SDS-PAGE image）




Greater than 95% as determined by reducing SDS-PAGE

## 活性图（Bioactivity image）




Measured by its ability to induce Topflash reporter bioactivity in CHO cells in the presence of 50ng/ml wnt3a. The expected ED50 is <1.0 μg/mL

## 注意事项（Note）

For Research Use Only , Not for Diagnostic Use.