

CHAMOT

**重组人R-脊椎蛋白1 /Recombinant R-spondin 1,
Human, Animal-Free**

CM181-5HP

CM181-20HP

CM181-100HP

CM181-500HP

CM181-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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重组人R-脊椎蛋白1 /Recombinant R-spondin 1, Human, Animal-Free

产品编号	CM181-5HP	CM181-20HP	CM181-100HP	CM181-500HP	CM181-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

R-spondin 1 (RSPO1, Roof plate-specific Spondin 1) is a cysteine-rich secreted glycoprotein that belongs to the R-Spondin family. Structurally, R-spondin 1 harbors an N-terminal signal peptide, two cysteine-rich furin-like (FU1-FU2) domains, a thrombospondin (TSP) domain, and a basic amino acid-rich (BR) C-terminal domain. R-spondin 1 acts as a ligand for the leucine-rich repeat-containing G-protein coupled receptor (LGR) family (LGR4/5/6), subsequent clearing negative regulators ZNRF3/RNF43 from the membrane, leading to the availability of Wnt receptor and activating Wnt/ β -catenin signaling. The signal cascade is essential for regulating stem cell proliferation, embryonic development, and tissue homeostasis.

别称

RSPO1, Roof plate-specific spondin-1

蛋白编码

Q2MKA7

分子量

The protein has a calculated MW of 46.8 kDa. The protein migrates as 62-68 kDa under reducing condition (SDS-PAGE analysis).

表达系统

HEK293

纯度

>95% as determined by SDS-PAGE.

生物活性

R-Spondin-1 enhances BMP-2-mediated differentiation of MC3T3-E1 cells. The ED₅₀ for this effect is < 3 µg/mL.

内毒素检测

<1 EU per 1 µg of the protein by the LAL method.

蛋白序列

A DNA sequence encoding Human R-Spondin 1 Protein (#Q2MKA7) (Ser21 - Ala263) was expressed with polyhistidine-SUMO tag at the N-terminus.

产品形式

Liquid (1X PBS, pH 7.4). If you have any concerns or special requirements, please confirm with us.

产品应用

Cell Culture

浓度

Please refer to the product label.

产品使用

1. Before opening, centrifuge at 3000 rpm for 5 mins.

2. Stock Solution

- Store at 2°C to 8°C for up to 1 week, -20°C or -80°C for 12 months.

3. Dilution

- Further dilute the stock solution in a buffer containing a carrier protein or stabilizer (e.g., 0.1% BSA, 10% FBS, 5% HSA, or 5% trehalose solution). The final concentration is not less than 10 µg/ml.
- Prepare aliquots (≥20 µl).
- Store at -20°C or -80°C for 3 to 6 months.

Avoid repeated freeze-thaw cycles.

产品储存/运输

储存

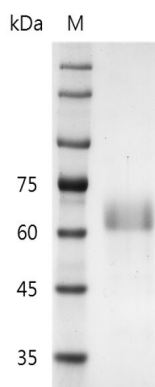
Stock Solution: Store at 2°C to 8°C for up to 1 week, -20°C or -80°C for 12 months.

Dilution: Store at -20°C or -80°C for 3 to 6 months with a carrier protein or stabilizer.

运输

Blue Ice

实验数据展示



SDS-PAGE analysis of recombinant human R-spondin 1

For Research Use or Further Manufacturing Only

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