

# Recombinant Mouse R-spondin-1/RSPO1 Protein

Catalog No.: RP01807 Recombinant

## **Sequence Information**

**Species Gene ID Swiss Prot**Mouse 192199 09Z132

**Tags** C-His

Synonyms

Rspondin; R-spondin; RSPO1

## **Product Information**

Source

**Purification** 

HEK293 cells ≥ 95 % as determined by SDS-

PAGE.

Calculated MW Observed MW

28.05 kDa 35-45 kDa

#### **Endotoxin**

< 0.01 EU/ $\mu$ g of the protein by LAL method

## **Formulation**

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## **Contact**

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## **Background**

RSPO1 gene is a member of the R-spondin family. It encodes RSPO1 which is known as a secreted activator protein with two cystein-rich, furin-like domains and one thrombospondin type 1 domain. In mice, RSPO1 induces the rapid onset of crypt cell proliferation and increases intestinal epithelial healing, providing a protective effect against chemotherapy-induced adverse effects. This protein is an activator of the beta-catenin signaling cascade, leading to TCF-dependent gene activation. RSPO1 acts both in the canonical Wnt/beta-catenin-dependent pathway and in non-canonical Wnt signaling pathway, probably by acting as an inhibitor of ZNRF3, an important regulator of the Wnt signaling pathway. It also acts as a ligand for frizzled FZD8 and LRP6.

## **Basic Information**

#### **Description**

Recombinant Mouse R-spondin-1/RSPO1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser21-Gln265) of mouse R-spondin-1/RSPO (Accession #NP\_619624.2) fused with 6×His tag at the C-terminus.

## **Bio-Activity**

## Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

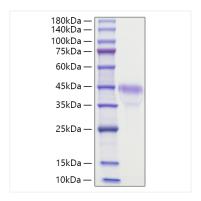
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

#### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

# **Validation Data**



Recombinant Mouse R-spondin-1/RSPO1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.