

## Active Recombinant Mouse Rspo1, Fc-tagged

**Cat. No.** Rspo1-724M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The recombinant mouse RPSO1-Fc fusion is expressed as a 483 amino acid protein consisting of Ser21 - Gln265 region of (UniProt accession #Q9Z132) and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions.                                                                                                                     |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | Human Cells                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 21-265 a.a.                                                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free).                                                                                                                                                                                                                                                                                         |
| <b>Bio-activity</b>     | Synergizes with Wnt3a to stabilize $\beta$ -catenin protein levels and induces the activation of $\beta$ -catenin responsive Luciferase reporter gene in HEK293 cells with a typical ED50 of 60 - 300 ng/ml.                                                                                                                                                      |
| <b>Molecular Mass</b>   | Calculated molecular mass (kDa): 53.8; Estimated by SDS-PAGE under reducing condition (kDa): 55-60.                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | SRGIKGRQRRISAEGSQACAKGCELCSEVNGCLKCSPKLFILLERNDIRQVGVCLP<br>SCPPGYFDARNPDMNKCI KCKIEHCEACFSHNFCTKCQEGLYLHKGRYCYPACPEG<br>STAANSTMECGSPAQCEMSEWSPWGPCSKKRKLCGFR KGSEERTRRVLHAPGG<br>DHHTCSDTKETRKCTVRRTPCPEGQKRRKGGQGRRENANRHPARKNSKEPGSNS<br>RRHK GQQQPQPGTTGPLTSVGPTWAQSTTENLYFQGSGTHTCPPCPAPPELLGG<br>PSVFLFPPKPKDTLMISRTPEVTC VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPRE |

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EQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT ISKAKGQPREPQVY  
 TLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFF  
 LYSK LTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

**Endotoxin**

<0.1 eu per 1 µg of purified recombinant protein determined by the lal>

**Purity**

>95% judged by SDS-PAGE under reducing condition

**Storage**

The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

**Gene Name**

**Rspo1** R-spondin homolog (*Xenopus laevis*) [ *Mus musculus* ]

**Official Symbol**

**Rspo1**

**Synonyms**

RSPO1; R-spondin homolog (*Xenopus laevis*); R-spondin-1; cristin-3; mCristin-3; roof plate-specific spondin-1; thrombospondin type 1 domain containing gene R-spondin; cysteine-rich and single thrombospondin domain-containing protein 3; R-spondin; R-spondin;

**Gene ID**

**192199**

**mRNA Refseq**

**NM\_138683**

**Protein Refseq**

**NP\_619624**

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**MIM****UniProt ID****Function** heparin binding; receptor binding; Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA