Active Recombinant Mouse Rspo1, Fc-tagged, Biotinylated

Cat. No. Rspo1-723M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	Human Cells
ProteinLength	21-265 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Synergizes with Wnt3a to stabilize β-catenin protein levels and induces the activation of β-catenin responsive Luciferase reporter gene in HEK293 cells with a typical ED50 of 60 - 300 ng/ml.
Molecular Mass	Calculated molecular mass (kDa): 53.8; Estimated by SDS-PAGE under reducing condition (kDa): 55-60.
AA Sequence	SRGIKGKRQRRISAEGSQACAKGCELCSEVNGCLKCSPKLFILLERNDIRQVGVCLP SCPPGYFDARNPDMNKCI KCKIEHCEACFSHNFCTKCQEGLYLHKGRCYPACPEG STAANSTMECGSPAQCEMSEWSPWGPCSKKRKLCGFR KGSEERTRRVLHAPGG DHTTCSDTKETRKCTVRRTPCPEGQKRRKGGQGRRENANRHPARKNSKEPGSNS RRHK GQQQPQPGTTGPLTSVGPTWAQSTTENLYFQGSTGTHTCPPCPAPELLGG

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	PSVFLFPPKPKDTLMISRTPEVTC VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPRE 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.
Conjugation	Biotin

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 Rspondin; cysteine-rich and single thrombospondin domain-containing protein 3; Rspondin; R-spondin;
Gene ID	192199

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mRNA Refseq	NM_138683
Protein Refseq	NP_619624
MIM	
UniProt ID	
Function	heparin binding; receptor binding;

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