

Active Recombinant Human RPSO1, Fc-tagged, Biotinylated

Cat. No. RSPO1-670H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human RPSO1-Fc fusion is expressed as a 481 amino acid protein consisting of Ser21 - Ala263 region of (UniProt accession #Q2MKA7) and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions.
Species	Human
Source	Human Cells
ProteinLength	21-263 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 50 - 200 ng/ml.
Molecular Mass	Calculated molecular mass (kDa): 53.5; Estimated by SDS-PAGE under reducing condition (kDa): 55-60.
AA Sequence	SRGIKGRQRRISAEGSQACAKGCELCSEVNGCLKCSPKLFILLERNDIRQVGVCLP SCPPGYFDARNPDMNKCI KCKIEHCEACFSHNFCTKCKEGLYLHKGRYCYPACPEG SSAANGTMECSSPAQCEMSEWSPWGPCSKKQQLCGFR RGSEERTRRVLHAPVG DHAACSDTKETRRCTVRRVPCPEGQKRRKGGQGRRENANRNLRKESKEAGAGS RRRK GQQQQQQQGTGTVGPLTSAGPASTTENLYFQGSGTGHTCPPCPAPELLGGPS

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VFLFPPKPKDTLMISRTPEVTCVV VDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQ
YNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIS KAKGQPREPQVYTLTP
PSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPVLDSGDSFFLYS
KLT VDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

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 1 [Homo sapiens]

Official Symbol

RSPO1

Synonyms

RSPO1; R-spondin 1; R spondin homolog (Xenopus laevis); R-spondin-1; FLJ40906; RSPONDIN; R-spondin homolog; roof plate-specific spondin-1; RSPO; CRISTIN3; RP11-566C13.1;

Gene ID

284654

mRNA Refseq

NM_001038633

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Protein Refseq	NP_001033722
MIM	609595
UniProt ID	Q2MKA7
Chromosome Location	1p34.2
Pathway	Wnt signaling network, organism-specific biosystem;
Function	heparin binding; protein binding; receptor binding;

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