Recombinant Human RSPO1, His-tagged, Biotinylated

Cat. No. RSPO1-265H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Rspondin-1 Protein, Biotinylated (Biotinylated RSPO1) Ser 21 - Ala 263, was labeled with biotin based on rhRSPO1 Protein, which was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	21-263 a.a.
Description	This gene is a member of the R-spondin family and encodes a secreted activator protein with two cystein-rich, furin-like domains and one thrombospondin type 1 domain. In mice, the protein induces the rapid onset of crypt cell proliferation and increases intestinal epithelial healing, providing a protective effect against chemotherapy-induced adverse effects.
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally Trehalose are added as protectants before lyophilization.
Molecular Mass	Biotinylated RSPO1, fused with 6×His tag at the C-terminus, has a calculated MW of 27.6 kDa. The predicted N-terminus is Ser 21 . DTT-reduced Protein migrates as 40 kDa due to glycosylation.
Endotoxin	Less than 1.0 EU per μg of the Biotinylated RSPO1 by the LAL method.

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Purity	>95% as determined by reduced SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).
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
Protein Refseq	NP_001033722
MIM	609595
UniProt ID	Q2MKA7
Chromosome Location	1p34.2
Pathway	Wnt signaling network, organism-specific biosystem;

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Function	heparin binding; protein binding; receptor binding;

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