

Recombinant Human RSPO1, His-tagged, Biotinylated

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

SPECIFICATION

Product Overview	Human Rspodin-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 6xHis 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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