

Active Recombinant Human RSPO1 Protein, His-tagged

Cat. No. RSPO1-2024H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human R-Spondin 1 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Met 1-Ala 263) of human R-Spondin 1 (Accession #NP_001033722.1) fused with a 6×His tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Met 1-Ala 263
Form	Lyophilized from sterile PBS, pH 7.4
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized human RSPO1 at 20 µg/ml (100 µl/well) can bind human LIMP2 with a linear range of 32-800 ng/ml. 2. Measured by its binding ability in a functional ELISA. Immobilized human RSPO1 at 20 µg/ml (100 µl/well) can bind mouse CD36 with a linear range of 6.4-800 ng/ml. 3. Measured by its ability to induce activation of βcatenin response in a Topflash Luciferase assay using HEK293T human embryonic kidney cells. The ED50 for this effect is typically 0.1-0.9 µg/mL in the presence of 5 ng/mL recombinant mouse Wnt3a.
Molecular Mass	The secreted recombinant human RSPO1 comprises 254 amino acids with a predicted molecular mass of 28.2 kDa. As a result of glycosylation, rhRSPO1 migrates as an approximately 42 kDa band in SDS-PAGE under reducing conditions.

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Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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

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