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Datasheet for ABIN7197620
RSP01 Protein (AA 1-146) (His tag)

Overview

Quantity:	100 µg
Target:	RSP01
Protein Characteristics:	AA 1-146
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This RSP01 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human R-Spondin 1/RSP01 Protein (aa 1-146, His Tag)(Active)
Sequence:	Met 1-Ala 146
Characteristics:	A DNA sequence encoding the amino acids (Met 1-Ala 146) of human RSP01 (NP_001033722.1) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 98 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to bind recombinant mouse CD36 in a functional ELISA.

Target Details

Target:	RSP01
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Target Details

Alternative Name: R-Spondin 1/RSP01 ([RSP01 Products](#))

Background: RSP01 gene is a member of the R-spondin family. It encodes RSP01 which is known as a secreted activator protein with two cystein-rich, furin-like domains and one thrombospondin type 1 domain. In mice, RSP01 induces the rapid onset of crypt cell proliferation and increases intestinal epithelial healing, providing a protective effect against chemotherapy-induced adverse effects. This protein is an activator of the beta-catenin signaling cascade, leading to TCF-dependent gene activation. RSP01 acts both in the canonical Wnt/beta-catenin-dependent pathway and in non-canonical Wnt signaling pathway, probably by acting as an inhibitor of ZNRF3, an important regulator of the Wnt signaling pathway. It also acts as a ligand for frizzled FZD8 and LRP6.

Synonym: RSP01, R-spondin1, RP11-566C13.1, CRISTIN3, FLJ40906, RSP0 Rspo1, R-spondin, Rspodin, RP23-325M14.2, Roof plate-specific spondin-1

Molecular Weight: 14 kDa

NCBI Accession: [NP_001033722](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.