

## Recombinant Mouse R-spondin-1/RSPO1 Protein

RPCB1191

### Protein Information

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<b>Size:</b>	10 µg , 20 µg , 50 µg , 100 µg	<b>Tag:</b>	C-His
<b>Reactivity:</b>	Mouse	<b>Expressed Host:</b>	HEK293 cells
<b>Calculated MW:</b>	28.05 kDa	<b>Observed MW:</b>	35-45 kDa

### Background

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RSPO1 gene is a member of the R-spondin family. It encodes RSPO1 which is known as a secreted activator protein with two cystein-rich, furin-like domains and one thrombospondin type 1 domain. In mice, RSPO1 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. RSPO1 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.

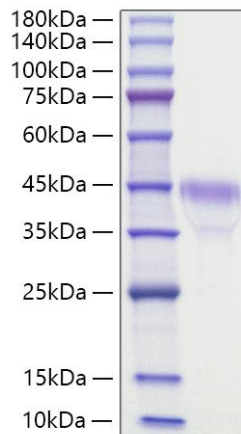
### Properties

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<b>Synonyms:</b>	Rspondin, R-spondin, RSPO1
<b>Gene ID:</b>	192199
<b>Endotoxin:</b>	< 0.01 EU/µg of the protein by LAL method
<b>Description:</b>	High quality, high purity and low endotoxin recombinant Recombinant Mouse R-spondin-1/RSPO1 Protein (RPCB1191), tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.
<b>Purity:</b>	≥ 95 % as determined by SDS-PAGE.
<b>Storage:</b>	Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

## Validation Data

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Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.