

Recombinant Mouse R-spondin-1/RSPO1 Protein

Catalog No.: RP01807 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	192199	Q9Z132

Tags

C-His

Synonyms

R-spondin; R-spondin; RSPO1

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
28.05 kDa	35-45 kDa

Endotoxin

< 0.01EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening.
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

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.

Basic Information

Description


Recombinant Mouse R-spondin-1/RSPO1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser21-Gln265) of mouse R-spondin-1/RSPO (Accession #NP_619624.2) fused with 6xHis tag at the C-terminus.

Bio-Activity

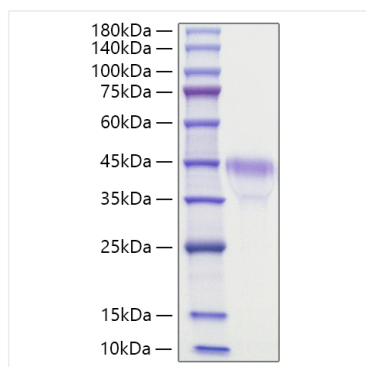
Storage

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.
Avoid repeated freeze/thaw cycles.

Contact

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Validation Data



Recombinant Mouse R-spondin-1/RSPO1
Protein was determined by SDS-PAGE under
reducing conditions with Coomassie Blue.