

Recombinant Human R-spondin-2/RSPO2 Protein

Catalog No.: RP03266 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	340419	Q6UXX9-1

Tags

C-hFC

Synonyms

R-spondin-2; Roof plate-specific spondin-2; hRspo2;RSPO2; UNQ9384/PRO34209

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
47.66 kDa	55-60 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method.

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

R-spondins are secretory proteins localized in the endoplasmic reticulum and Golgi bodies and are processed through the secretory pathway. The RSPO family comprises four proteins, i.e., R-spondin 1-4, which are important secreted regulators of the Wnt/β-catenin and Wnt/PCP signaling pathway and govern various functions and are involved in vital cellular processes such as stem cell renewal, morphogenesis and tumorigenesis. Among the R-spondin family, R-spondin-2, is a key protein that regulates ligand-dependent β-catenin signaling. And it has been reported to play a pivotal role in myogenesis, osteoblast differentiation, and limb specification during embryonic development.

Basic Information

Description

Recombinant Human R-spondin-2/RSPO2 Protein is produced by Mammalian expression system. The target protein is expressed with sequence (Ala32-Gly205) of human R-spondin-2 (Accession #Q6UXX9) fused with hFc tag at the C-terminus.

Bio-Activity

Measured by its ability to induce Topflash reporter activity in 293 human embryonic kidney cells. The typical ED₅₀ is 86 ng/mL in the presence of 3.24 ng/mL Recombinant Human Wnt3a Surrogate.

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.

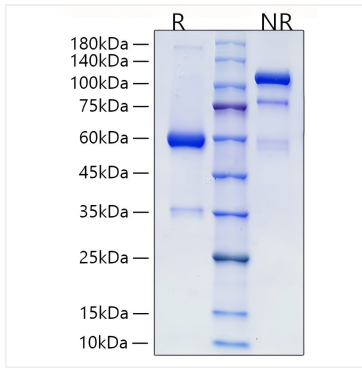
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Validation Data



Recombinant Human R-spondin-2/RSPO2 Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions.