

Recombinant Human R-spondin-2/RSPO2 Protein

Catalog No.: RP03266

Sequence Information

Species **Gene ID**
Human 340419

Swiss Prot **Tags**
Q6UXX9-1 C-hFc

Synonyms

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

Product Information

Source **Purification**
HEK293 cells ≥ 90 % as
determined 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/尾-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 尾-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.

Activity

Measured by its ability to induce Topflash reporter activity in HEK293T human embryonic kidney cells. The ED₅₀ for this effect is 0.72-2.88 ng/mL in the presence of 5 ng/mL Recombinant Mouse Wnt-3a, corresponding to a specific activity of 3.47×10⁵~1.39×10⁶ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

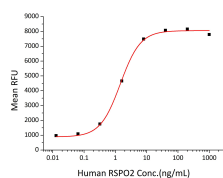
Contact

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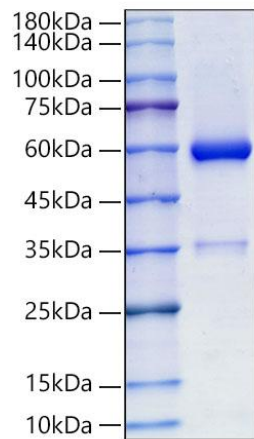
✉ | cn.market@abclonal.com.cn

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Validation Data



Measured by its ability to induce Topflash reporter activity in HEK293T human embryonic kidney cells. The ED_{50} for this effect is 0.72–2.88 ng/mL in the presence of 5 ng/mL Recombinant Mouse Wnt-3a, corresponding to a specific activity of $3.47 \times 10^5 \sim 1.39 \times 10^6$ units/mg.



Recombinant Human R-spondin-2/RSPO2 Protein was determined by SDS-PAGE under reducing (R)