

Recombinant Human R-Spondin-2
Catalog # PBG10387**Specification**

Recombinant Human R-Spondin-2 - Product Information**Recombinant Human R-Spondin-2 - Additional Information****Description**

The R-Spondin (Rspo) proteins belong to the Rspo family of Wnt modulators. Currently, the family consists of four structurally related secreted ligands (Rspo 1-4), all containing furin-like and thrombospondin structural domains. The Rspo proteins can interact with the Frizzled/LRP6 receptor complex in a manner that causes the stabilization and resulting accumulation of the intracellular signaling protein, β -catenin. This activity effectively activates and increases the subsequent nuclear signaling of β -catenin. R-Spondin can also bind to the previously discovered G-protein coupled receptors, LGR-4 and LGR-5. Rspo/ β -catenin signaling can act as an inducer of the transformed phenotype, and can also regulate the proliferation and differentiation of certain stem cell populations. Recombinant human R-Spondin-2 is a 24.4 kDa protein consisting of 212 amino acid residues. Due to glycosylation, R-Spondin-2 migrates at an apparent molecular weight of approximately 30.0 kDa by SDS PAGE analysis under reducing conditions.

Biological Activity

R-Spondin-2 enhances BMP-2 mediated differentiation of MC3T3-E1 cells.

Authenticity

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin

Endotoxin level is <0.1 ng/ μ g of protein (<1EU/ μ g).

Protein Content

Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage

-20°C

Precautions

Recombinant Human R-Spondin-2 is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human R-Spondin-2 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Recombinant Human R-Spondin-2 - Images