

## R-Spondin 3/RSPO3 Protein, Human, Recombinant (hFc & His)

### General Information

Synonyms:	Protein with TSP type-1 repeat;RSPO3;R-spondin-3;Roof plate-specific spondin-3;CRISTIN1;THSD2;Thrombospondin type-1 domain-containing protein 2;PWTSR
Protein Construction:	Gln22-Val201
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9BXY4
Molecular Weight:	61 KDa (reducing condition)
AA Sequence:	Gln22-Val201

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

R-spondin-3 (RSPO3), also known as Protein with TSP type-1 repeat, Roof plate-specific spondin-3, Thrombospondin type-1 domain-containing protein 2, PWTSR, THSD2 and CRISTIN1, is a member of the thrombospondin type 1 repeat supergene family. RSPO3 is a secreted protein and widely expressed in many tissues. RSPO3 contains two Furin-like repeats which have been found in a variety of eukaryotic proteins involved

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in the mechanism of signal transduction by receptor tyrosine kinases, and one TSP type-1 domain, RSPO3 functions as a activator of the beta-catenin signaling cascade, leading to TCF-dependent gene activation. Otherwise, RSPO3 may negatively regulate the TGF-beta pathway.

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