

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

General Information

Synonyms:	PWTSR;CRISTIN1;THSD2;R-spondin 3
Protein Construction:	Gln22-Val146
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9BXY4-1
Molecular Weight:	14.95 kDa (Predicted); 20-35 kDa (Due to glycosylation)

QC Testing

Biological Activity:	1. Immobilized Human R-Spondin 3, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human RNF43, hFc Tag with the EC50 of 25.2 ng/ml determined by ELISA (QC Test). 2. Human LGR-5, hFc Tag captured on CM5 Chip via Protein A can bind Human R-Spondin 3, His Tag with an affinity constant of 0.59 nM as determined in SPR assay (Biacore T200) (Routine Test).
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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

The R-spondins are members of a superfamily of thrombospondin type 1 repeat (TSR-1)-containing proteins. The prototype member (discovered in 1971) was isolated from platelets that had been stimulated with thrombin, and

was therefore designated 'thrombin-sensitive protein.

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