

Technical Data Sheet

Recombinant human R-spondin 3 protein



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Lot Specific Information

Lot Number: Lot Specific*

Total Protein: Lot Specific*

*This information will be noted on the certificate of analysis that ships with this product.

Shelf Life

This product has a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended.

Product Website Link: <https://bioxcell.com/recombinant-human-r-spondin-3-protein-rp008>

Product Information

Catalog Number:	RP008
Protein Identity:	Confirmed identity with expected mass, determined by mass spectrometry
Recommended Dilution Buffer:	InVivoPure Reconstitution Buffer A
Formulation:	Lyophilized, white powder
Endotoxin:	≤0.5 EU/mg, LAL assay
Purity:	≥95%; SDS-PAGE
Reconstitution:	Resuspend in 10 mM HCl (Reconstitution solution A) at >50 µg/ml. Once reconstituted, store in single-use aliquots to avoid freeze-thaw cycles. Store reconstituted protein at -20 °C to -80 °C for a maximum of 12 months or until the expiry date if sooner.
Sterility:	Sterile
Production:	Microbial. Expressed in E. coli
Molecular Weight:	17 kDa
Bioactivity Assay:	No significant difference between EC50 of reference and test lots
Mycoplasma:	Negative

Description

Recombinant human R-spondin 3 (RSPO3) protein is a secreted member of the R-spondin family (RSPO 1–4), containing furin-like and thrombospondin structural domains, that activates the canonical Wnt signaling pathway through the leucine-rich repeat-containing G-protein coupled receptors LGR4–6. In the colon, R-spondin 3 promotes stem cell recovery and epithelial repair by inducing Wnt signaling, and it is an essential component of Wnt3a/R-spondin/noggin (WRN) media used widely to propagate intestinal organoids. As a defined, high-quality recombinant reagent, RSPO3 replaces variable conditioned media (spent media containing Wnt and R-spondin), improving reproducibility and reducing lab-to-lab variability in stem cell and organoid culture. This protein is optimized for in vivo and functional applications: low-endotoxin, tag-free, and carrier-free, supporting reproducible performance in demanding preclinical and bioactivity studies. Species reactivity: human. Species similarity: mouse - 97%, rat - 97%, bovine - 98%, porcine - 98%.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <https://bioxcell.com/faqs>.

Store lyophilized protein between -20 °C and -80 °C until the date of expiry. Avoid freeze-thaw cycles

Bio X Cell, LLC
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*Conditions: For research use only. Not for use in diagnostic or therapeutic procedures.
Not for resale.*

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