

Technical Data Sheet

Recombinant human noggin protein



bioxcell.com

Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bioxcell.com/terms-and-conditions>.

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-noggin-protein-rp009>

Product Information

Catalog Number:	RP009
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:	46 kDa (dimer)
Bioactivity Assay:	No significant difference between EC50 of reference and test lots
Mycoplasma:	Negative

Description

Recombinant human noggin protein is a 64 kDa homodimeric glycoprotein and a key extracellular antagonist of BMP signaling, expressed during embryonic development and in adult cells. By binding BMP-2, -4, -6 and -7, noggin prevents these ligands from engaging their receptors and blocks downstream activation of BMP signaling cascades within the larger TGF-β family. Through this control of BMP signaling, noggin plays a crucial role in embryonic patterning and in the development of the neural tube, teeth, hair follicles and eye. In cell culture, recombinant noggin is widely used to maintain pluripotent stem cells, to differentiate iPSCs into neural lineages, and as an essential component of many organoid systems, including intestine, liver and lung organoids, making it a core reagent for stem cell and organoid research. 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 - 99%, rat - 99%, bovine - 99%, porcine - 99%.

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

Conditions: For research use only. Not for use in diagnostic or therapeutic procedures.

<https://bioxcell.com>
+1-866-787-3444
customerservice@bioxcell.com

Not for resale.

**Bio X Cell, Bio X Cell logo, and all other trademarks are the property
of Bio X Cell, LLC © Bio X Cell, LLC**