

Recombinant Human Noggin








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Catalog Number:	PHC1506
Quantity:	20 µg
Lot Number:	See product label.
Molecular Weight:	Non-glycosylated, non-disulfide-linked homodimer consisting of two 206 amino acid polypeptide chains, with a total molecular weight of 46.2 kDa (each subunit having a molecular weight of 23.1 kDa.)
Purity:	>95% as determined by SDS-PAGE.
Biological Activity:	The biological activity was determined by measuring the dose dependent inhibition of the 5 ng/mL BMP-4-induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The expected ED ₅₀ for this effect is 0.05–0.08 µg/mL of Noggin. The optimal concentration for each specific application should be determined by an initial dose-response assay.
Formulation:	Lyophilized, carrier free.
Sterility:	Filtered through a 0.22 micron filter prior to lyophilization.
Endotoxin:	<0.1 ng/µg
Production:	Recombinant human Noggin is produced in <i>E. coli</i> and purified via sequential chromatography.
Reconstitution Recommendation:	We recommend that the vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute lyophilized recombinant human Noggin in 10 mM acetic acid to a concentration of 0.1–1.0 mg/mL. Further dilutions should be made in appropriate buffered solution containing a carrier protein, such as 0.1% HSA or BSA.
Suggested Working Dilutions:	The optimal concentration should be determined for each specific application.
Storage:	This lyophilized preparation is stable at room temperature for 3 weeks, but we recommend storage at –20°C, preferably desiccated. Upon reconstitution, the preparation can be stored at 4°C for 2–7 days, but should be stored at –20°C in working aliquots for future use. Avoid repeated freeze/thaw cycles.
Expiration Date:	Expires one year from date of receipt when stored as instructed.
References:	<p>Que, J., et al. (2006) Morphogenesis of the trachea and esophagus: current players and new roles for noggin and Bmps. <i>Differentiation</i> 74(7):422–437.</p> <p>Yanagita, M. (2005) BMP antagonists: their roles in development and involvement in pathophysiology. <i>Cytokine Growth Factor Rev.</i> 16(3):309–317.</p> <p>Chen, D., et al. (2004) Bone morphogenetic proteins. <i>Growth Factors</i> 22(4):233–241.</p> <p>Sebald, W., et al. (2004) Molecular recognition in bone morphogenetic protein (BMP)/receptor interaction. <i>Biol. Chem.</i> 385(8):697–710.</p>

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description
	Catalog Number
	Research Use Only
	Use by
	Manufacturer
	Without, does not contain
	Protect from light
	Directs the user to consult instructions for use (IFU), accompanying the product.

Symbol	Description
	Batch code
	In vitro diagnostic medical device
	Temperature limitation
	European Community authorized representative
	With, contains
	Consult accompanying documents

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For Research Use Only. Caution: Not for human or animal therapeutic or diagnostic use.

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