

## Active Recombinant Human NOG Protein

Cat. No. NOG-213N Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human NOG Protein without tag was expressed in CHO.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Description</b>	Noggin, also known as NOG, is a homodimeric glycoprotein that binds to and modulates the activity of TGF-beta family ligands. It is expressed in condensing cartilage and immature chondrocytes. Noggin antagonizes bone morphogenetic protein (BMP) activities by blocking epitopes on BMPs needed for binding to their receptors. Noggin has been shown to be involved in many developmental processes, such as neural tube formation and joint formation. During development, Noggin diffuses through extracellular matrices and forms morphogenic gradients, regulating cellular responses dependent on the local concentration of the signaling molecule.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	ED50 < 2.5 ng/mL, measured in a bioassay using ATDC5 cells in the presence of 10 ng/mL human BMP-4.
<b>Molecular Mass</b>	29-31kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	QHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEKDLNETLLRSLGHHYDPGFMATSPPE DRPGGGGGAAGGAEDLAELDQLLRQRPSPGAMPSEIKGLEFSEGLAQGKKQRLSKK LRRKLQMWLWSQTFPCVLYAWNDLGSRFWPRYVKVGSCFSKRSCSVPEGMVCKP

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SKSVHLTVLRWRCQRRGGQRCGWIPYPIIASECKCSC

**Endotoxin** < 0.2 EU/μg, determined by LAL method.

**Purity** > 95% as analyzed by SDS-PAGE.

**Storage** Lyophilized recombinant human Noggin remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human Noggin should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.

**Storage Buffer** Lyophilized after extensive dialysis against PBS.

**Reconstitution** Reconstituted in ddH<sub>2</sub>O or PBS at 100 μg/mL.

## GENE INFORMATION

**Gene Name** [NOG noggin \[ Homo sapiens \]](#)

**Official Symbol** [NOG](#)

**Synonyms** NOG; noggin; SYM1, symphalangism 1 (proximal), synostoses (multiple) syndrome 1, SYNS1; symphalangism 1 (proximal); SYM1; SYNS1;

**Gene ID** [9241](#)

**mRNA Refseq** [NM\\_005450](#)

**Protein Refseq** [NP\\_005441](#)

**MIM** [602991](#)

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