

Active Recombinant Human NOG Protein

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

SPECIFICATION

Product Overview	Recombinant Human NOG Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 2.5 ng/mL, measured in a bioassay using ATDC5 cells in the presence of 10 ng/mL human BMP-4.
Molecular Mass	29-31kDa, observed by reducing SDS-PAGE.
AA Sequence	QHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEKDLNETLLRSLGHHYDPGFMATSPPE DRPGGGGGAAGGAEDLAELDQLLRQRPSPGAMPSEIKGLEFSEGLAQGKKQRLSKK LRRKLQMWLWSQTFCPVLYAWNDLGSRFWPRYVKVGSCFSKRSCSVPEGMVCKP

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SKSVHLTVLRWRCQRRGGQRCGWIPQYPIISECKCSC

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 ddH₂O 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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UniProt ID

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