

## Active Recombinant Human NOG protein

Cat. No. NOG-293H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human NOG protein(Q13253)(28-232 aa) was expressed in Insect Cell.
<b>Species</b>	Human
<b>Source</b>	Insect Cell
<b>ProteinLength</b>	28-232 aa
<b>Form</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 30 % acetonitrile, 0.1 % TFA.
<b>Bio-activity</b>	Fully biologically active when compared to standard. The ED50 as determined by inhibiting BMP-4-induced alkaline phosphatase production of murine ATDC5 cells is less than 3.0 ng/ml, corresponding to a specific activity of $> 3.3 \times 10^5$ IU/mg in the presence of 5 ng/ml rHuBMP-4.
<b>Molecular Mass</b>	Approximately 23.0 kDa on SDS-PAGE under reducing conditions, containing 205 amino acids, and a molecular mass about 47.9 kDa homodimer under non-reducing conditions (Molecular size on SDS-PAGE will appear at approximately 50-80 kDa).
<b>AASequence</b>	MQHYLHIRPA PSDNLPLVDL IEHPDIFDP KEKDLNETLL RSLGGHYDP GFMATSPPED RPPGGGGGAAG GAEDLAELDQ LLRQRPSGAM PSEIKGLEFS EGLAQGKKQR LSKKLRRKLQ MWLWSQTFCP VLYAWNDLGS RFWPRYVKVG SCFSKRSCSV PEGMVCKPSK SVHLTVLRWR CQRRGGQRCG WIPIQYPIIS

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	ECKCSC
<b>Endotoxin</b>	Less than 1 EU/μg of rHuNoggin as determined by LAL method.
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

<b>Gene Name</b>	NOG noggin [ Homo sapiens ]
<b>Official Symbol</b>	NOG
<b>Synonyms</b>	SYM1; SYNS1; SYNS1A
<b>Gene ID</b>	9241
<b>mRNA Refseq</b>	NM_005450
<b>Protein Refseq</b>	NP_005441

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<b>MIM</b>	602991
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<b>UniProt ID</b>	Q13253
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