

Active Recombinant Human NOG protein

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

SPECIFICATION

Product Overview	Active Recombinant Human NOG protein(Q13253)(28-232 aa) was expressed in Insect Cell.
Species	Human
Source	Insect Cell
ProteinLength	28-232 aa
Form	Lyophilized from a 0.2 µm filtered concentrated solution in 30 % acetonitrile, 0.1 % TFA.
Bio-activity	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.
Molecular Mass	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).
AASequence	MQHYLHIRPA PSDNLPLVDL IEHPDPIFDP KEKDLNETLL RSLGGHYDP GFMATSPPED RPPGGGGGAAG GAEDLAELDQ LLRQRPSGAM PSEIKGLEFS EGLAQGKKQR LSKKLRRKLQ MWLWSQTFCP VLYAWNDLGS RFWPRYVKVG SCFSKRSCSV PEGMVCKPSK SVHLTVLRWR CQRRGGQRCG WIPIQYPIIS

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	ECKCSC
Endotoxin	Less than 1 EU/μg of rHuNoggin as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analyses.
Storage	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.
Reconstitution	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

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

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MIM	602991
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UniProt ID	Q13253
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