

Active Recombinant Mouse Nog protein

Cat. No. Nog-954M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Nog protein(P97466)(28-232 aa) was expressed in E. coli.
Species	Mouse
Source	E.coli
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 2 ng/ml, corresponding to a specific activity of $> 5.0 \times 10^5$ IU/mg in the presence of 5 ng/ml BMP-4.
Molecular Mass	Approximately 46.4 kDa, a disulfide-linked homodimer consisting of two 206 amino acid polypeptide chains.
AASequence	MQHYLHIRPA PSDNLPLVDL IEHPDPIFDP KEKDLNETLL RSLGGHYDP GFMATSPPED RPPGGGGPAG GAEDLAELDQ LLRQRPSGAM PSEIKGLEFS EGLAQGKKQR LSKKLRRKLQ MWLWSQTFCP VLYAWNDLGS RFWPRYVKVG SCFSKRSCSV PEGMVCKPSK SVHLTVLRWR CQRRGGQRCG WIPIQYPIIS ECKCSC

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	Less than 1 EU/μg of rMuNoggin 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 [<i>Mus musculus</i>]
Official Symbol	Nog
Synonyms	NOG; noggin;
Gene ID	18121
mRNA Refseq	NM_008711
Protein Refseq	NP_032737
SDS-PAGE	

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