

## Active Recombinant Mouse Nog Protein

**Cat. No.** Nog-4452M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of Mouse noggin (Nog) without tag was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Essential for cartilage morphogenesis and joint formation. Inhibitor of bone morphogenetic proteins (BMP) signaling which is required for growth and patterning of the neural tube and somite. Inhibits chondrocyte differentiation through its interaction with GDF5 and, probably, GDF6.
<b>Bio-activity</b>	Determined by its ability to inhibit 5.0 ng/mL of BMP-4 induced alkaline phosphatase production by ATDC5 chondrogenic cells. The expected ED50 for this effect is 1.0-2.0 ng/mL of Noggin.
<b>Molecular Mass</b>	46.4 kDa
<b>AA Sequence</b>	MQHYLHIRPAPSDNLPLVDLIEHPDPIFDPKKDLNETLLRSLGHHYDPGFMATSPPEDRPGGGGGPAGGAEDLAELDQLLRQRPSGAMPSEIKGLEFSEGLAQGKKQRLSKKLRRKLQMWLWSQTFPCVLYAWNDLGSRFWPRYVKVGSCFSKRSCSVPEGMVCKPSKSVHLTVLRWRCQRRGGQRCGWIPYIPISECKCSC
<b>Endotoxin</b>	< 0.1 ng/μg of protein (< 1 EU/μg)

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<b>Purity</b>	> 95% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade.
<b>Storage Buffer</b>	Lyophilized from a 0.2 $\mu$ M filtered solution of 20 mM pH 7.2 phosphate buffer, 100 mM NaCl, pH 7.2

## GENE INFORMATION

<b>Gene Name</b>	Nog noggin [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Nog
<b>Synonyms</b>	NOG; noggin
<b>Gene ID</b>	18121
<b>mRNA Refseq</b>	NM_008711
<b>Protein Refseq</b>	NP_032737
<b>UniProt ID</b>	P97466

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