

Active Recombinant Mouse Nog Protein

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

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse noggin (Nog) without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	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.
Bio-activity	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.
Molecular Mass	46.4 kDa
AA Sequence	MQHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEKDLNETLLRSLLGGHYDPGFMATSPPEDRPGGGGGPAGGAEDLAELDQLLRQRPSPGAMPSEIKGLEFSEGLAQGKKQRLSKKLRRKLQMWLWSQTFPCVLYAWNDLGSRFWPRYVKVGSCFSKRSCSVPEGMVCKPSKSVHLTVLRWRCQRRGGQRCGWIPYIPISECKCSC
Endotoxin	< 0.1 ng/μg of protein (< 1 EU/μg)

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

GENE INFORMATION

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

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