

DATASHEET Version 20181206

Noggin, Mouse(CHO-expressed)

Cat. No.: Z03205-5

Size: 5.0 ug

Synonyms: NOG Description:

Noggin, also known as NOG, is a homodimeric gly-coprotein that binds to and modulates the activity of TGF-beta family ligands. It is expressed in condensing cartilage and immature chondrocytes. Noggin antagonizes bone morphogenetic protein (BMP) activities by blocking epitopes on BMPs needed for binding to their receptors.Noggin has been shown to be involved in many developmental processes, such as neural tube formation and joint formation. During development, Noggin diffuses through extracellular matrices and forms morphogenic gradients that regulate cellular responses in a concentration-dependent manner.

Amino Acid Sequence:

00001 LRAAPAGGQH YLHIRPAPSD NLPLVDLIEH PDPIFDPKEK
00041 DLNETLLRSL LGGHYDPGFM ATSPPEDRPG GGGPAGGAE
00081 DLAELDQLLR QRPSGAMPSE IKGLEFSEGL AQGKKQRLSK
00121 KLRRKLQMWL WSQTFCPVLY AWNDLGSRFW PRYVKVGSCF
00161 SKRSCSVPEG MVCKPSKSVH LTVLRWRCQR RGGQRCGWIP
00201 IQYPIISECK CSC

Source: CHO
Species: Mouse

Biological Activity: ED_{50} < 60 ng/ml, measured in a bioassay using ATDC5 cells in the presence of 10 ng/ml human BMP-4.

Molecular Weight: 29-31 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant murine Nogginremains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, murine Nogginshould be stable up to 1 week at 4°C or up to 2 months at -20°C.