

Overview

Synonyms	NOG
Description	Noggin , also known as NOG, is a homodimeric glycoprotein 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.
Accession No	P97466
Species	Mouse
Source	CHO
Biological Activity	ED ₅₀ < 60 ng/ml, measured in a bioassay using ATDC5 cells in the presence of 10 ng/ml human BMP-4.
Sequence	LRAAPAGGQH YLHIRPAPSD NLPLVDLIEH PDPIFDPKKEK DLNETLLRSL LGGHYDPGFM ATSPPEDRPG GGGGPAGGAE DLAELDQLLR QRPSGAMPSE IKGLEFSEGL AQGKKQRLSK KLRRKLMWL WSQTFPCVLY AWNDLGSRFW PRYVKVGSCF SKRSCSVPEG MVCKPSKSVH LTVLRWRCQR RGGQRCGWIP IQYPIISECK CSC

Properties

Measured Molecular Weight	29-31 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant murine Noggin remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, murine Noggin should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura,
Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: customerservice@lifetechindia.com

Web: www.lifetechindia.com