



Cat# **AMS.90256-1**

Noggin

Size: 10 µg

Description: Human Noggin, also known as symphalangism 1 (SYM1) or synostoses (multiple) syndrome 1 (SYNS1), GenBank Accession No. NM_005450, a.a. 28-232(end), disulfide-linked homodimer. MW= \sim 28kDa (monomer), expressed in Freestyle 293F cells.

Species: Human

Host species: FreeStyle 293-F cells

MW: 28 kDa

Genbank: NM_005450

Tag(s): none

a.a.: 28-232(end)

UniProt: #Q13253

Applications: Useful for cell culture and for the study of signaling and developmental pathways. Also useful for receptor binding studies, screening inhibitors, and selectivity profiling.

Storage/Stability: \geq 12 months (lyophilized) at -20°C . Store reconstituted protein in aliquots at -20°C to -70°C for up to 6 months. Avoid freeze/thaw cycles.

Shipping Temperature: -80

Background: Noggin is one of a group of proteins that act as secreted antagonists of BMP activity. BMPs are essential for osteogenesis and organogenesis during embryonic development, and also play a role in tissue healing in adults. Noggin inhibits BMP activity by binding to them with high affinity, blocking their ability to bind to their receptor.

Synonym(s): Noggin, symphalangism 1, SYM1, synostoses (multiple) syndrome 1, SYNS1

Endotoxin Level: $< 1\text{EU}$ per µg of Noggin as determined by the LAL method.

AMSBIO | www.amsbio.com | info@amsbio.com

 **UK & Rest of the World**
184 Park Drive, Milton Park
Abingdon OX14 4SE, UK
T: +44 (0)1235 828 200
F: +44 (0) 1235 820 482

 **North America**
1035 Cambridge Street,
Cambridge, MA 02141
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218

 **Germany**
Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
T: +49 (0) 69 779099
F: +49 (0) 69 13376880

 **Switzerland**
Centro Nord-Sud 2E
CH-6934 Bioggio-Lugano
T: +41(0) 91 604 55 22
F: +41(0) 91 605 17 85

Biological Activity: Measured by Noggin's ability to inhibit BMP-4-induced alkaline phosphatase production by C2C12 mouse myoblast cells. The ED50 is <20 ng/ml in the presence of 30 ng/ml of human BMP-4.

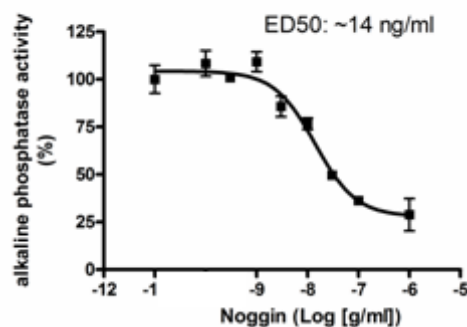
Formulation: Lyophilized from a 0.2 µm filtered 0.1 mg/ml solution of 50 mM Tris, pH 8.0, 1.2 M NaCl, 2.7 mM KCl, 0.1% BSA

Format: Lyophilized solid

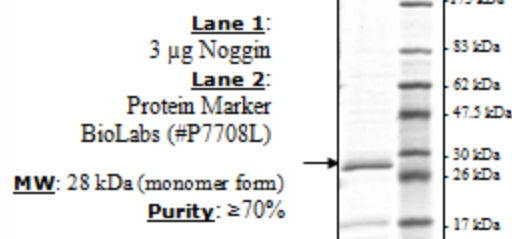
Reconstitution: Reconstitute in sterile water with 0.1% BSA to a final concentration of 0.1 mg/ml. Final formulation will be 50 mM Tris, pH 8.0, 1.2 M NaCl, 2.7 mM KCl, 0.1% BSA. This solution can then be diluted into other buffers. To maximize product collection from vial surface, vortex briefly and then spin down to recollect the liquid.

Warnings: Avoid freeze/thaw cycles.

Quality Assurance



4-20% SDS-PAGE Coomassie staining



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F: +41(0) 91 605 17 85