

[Go to Product page](#)

Datasheet for ABIN988177

NOG Protein

Overview

Quantity:	20 µg
Target:	NOG
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active

Product Details

Sequence:	<p>MQHYLHIRPA PSDNLPLVDL IEHPDPIFDP KEKDLNETLL RSLGGHYDP GFMTSPPED</p> <p>RPGGGGGAAG GAEDLAELDQ LLRQRPSGAM PSEIKGLEFS EGLAQGKKQR LSKKLRRKLQ</p> <p>MWLWSQTFCP VLYAWNDLGS FWPRYVKVGS CFSKRSCSVP EGMVCKPSKS VHLLTVLRWRC</p> <p>QRRGGQRCGW IPIQYPIISE CKCS</p>
Characteristics:	Fully biologically active when compared to standard. The ED50 determined by inhibiting BMP-4-induced alkaline phosphatase production of murine ATDC5 cells is less than 80 ng/ml, corresponding to a specific activity of $>1.3 \times 10^4$ IU/mg in the presence of 5 ng/ml BMP-4.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 1 EU/µg of rHu NOGGIN as determined by LAL method

Target Details

Target:	NOG
Alternative Name:	NOGGIN (NOG Products)
Background:	Noggin belongs to a group of diffusible proteins which bind to ligands of the TGF-beta family

Target Details

and regulate their activity by inhibiting their access to signaling receptors. Noggin was originally identified as a BMP-4 antagonist whose action is critical for proper formation of the head and other dorsal structures. Consequently, Noggin has been shown to modulate the activities of other BMPs including BMP-2,-7,-13, and -14. Targeted deletion of Noggin in mice results in prenatal death and recessive phenotype displaying a severely malformed skeletal system. Conversely, transgenic mice over-expressing Noggin in mature osteoblasts display impaired osteoblastic differentiation, reduced bone formation, and severe osteoporosis. Synonym: NOGGIN, Human. Formulation: Lyophilized from a 0.2µm filtered concentrated solution in 30% acetonitrile, 0.1% TFA.

Molecular Weight:	Approximately 46.2 kDa non-disulfide-linked homodimer consisting of two 206 amino acid polypeptide chains.
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Pathways:	Stem Cell Maintenance , Tube Formation
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 10mM HAc to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at
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Storage:	4 °C
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