Recombinant human Noggin protein

Catalog Number: ATGP4020

PRODUCT INPORMATION

Expression system
HEK293

Domain
28-232aa

UniProt No.
Q13253

NCBI Accession No.
NP_005441.1

Alternative Names
SYM1, SYNS1, SYNS1A, NOG, symphalangism 1, synostoses syndrome 1

PRODUCT SPECIFICATION

Molecular Weight
23.8kDa (211aa)

Concentration
0.25mg/ml (determined by Absorbance at 280nm)

Formulation
Liquid in. 50mM MES buffer (pH 6.5) containing 30% glycerol

Purity
> 95% by SDS - PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
NOG, also known as noggin, is a secreted protein that is involved in the development of many body tissues, including nerve tissue, muscles, and bones and is known to exert its effects by inhibiting the bone morphogenetic protein (BMP) -signaling pathway. It binds some BMPs such as BMP-4 with high affinity and others such as BMP-7 with lower affinity. This protein is an inhibitor of several bone morphogenetic proteins and

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cysteine-knot region of human Noggin are linked to multiple types of skeletal dysplasias that result in apical joint fusions. It also plays a key role in neural induction by inhibiting BMP4, along with other TGF-beta signaling inhibitors. Recombinant human Noggin, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

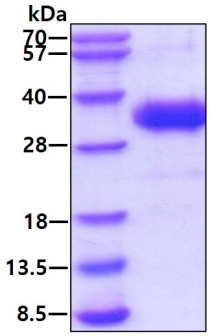
QHYLHIRPAP SDNLPLVDLI EHPDPIFDPK EKDLNETLLR SLLGGHYDPG FMATSPPEDR PGGGGGAAGG AEDLAELDQL LRQRPSGAMP SEIKGLEFSE GLAQGKKQRL SKKLRRKLQM WLWSQTFCPV LYAWNDLGSR FWPRYVKVGS CFSKRSCSVP EGMVCKPSKS VHLTVLRWRC QRRGGQRCGW IPIQYPIISE CKCSC<HHHHH H>

General References

Zimmerman LB., et al, (1996) Cell. 86:599-606.
Groppe J., et al, (2002) Nature. 420:636-642.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain