

Human Noggin

Synonyms: SYM1, SYNS1, NOG.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
5 µg	1750.950.005		
20 µg	1750.950.020		
100 µg	1750.950.100		
1 mg	1750.950.199		

Please enquire for bulk quantities and other vial sizes

Description

Noggin Human Recombinant produced in *E.Coli* is a non-glycosylated, non-disulfide-linked homodimer consisting of two 206 amino acid polypeptide chains, having a total molecular mass of approximately 46.3kDa (each chain 23.15kDa).

- **Biological Activity** ≥ 3.3 x 10⁵units/mg
- **Source** *E. Coli*
- **Purity** ≥ 95 % (SDS-PAGE)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer** Lyophilized from a 0.2µm filtered solution in 30% CH₃CN, 0.1% TFA*
- **Physical state** Sterile filtered, lyophilized

Biological Activity

The ED₅₀ was determined by its ability to inhibit 5.0ng/ml of BMP-4 induced alkaline phosphatase production by murine ATDC-5 cells. The expected ED₅₀ for this effect is < 3ng/ml of Noggin, corresponding to a Specific Activity of 3.3x10⁵units/mg.

Reconstitution

It is recommended to 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. Further dilutions should be made in appropriate buffered solutions.

Stability

Lyophilized Noggin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Noggin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

MQH_YLHIRPA PSDNLPLVDL IEHPDPIFDP KEKDLNETLL RSL_LGGHYDP GFMATSPPED RPPGGGGGAAG
 GAEDLAELDQ LLRQRPSGAM PSEIKGLEFS EGLAQGKKQR LSKKLRRLQ MWLWSQTFCP VLYAWNDLGS
 RFWPRYVKVG SCFSKRSCSV PEGMVCKPSK SVHLTVLRWR CQRRGGQRCG WIPIQYPIIS ECKCSC

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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