

Noggin Active Protein | NOG active protein

Recombinant Human Noggin

CATALOG #
AAA38222

PRODUCT SYNONYMS

Noggin; Recombinant Human Noggin; Noggin Human; Noggin Human Recombinant; SYM1; SYNS1; NOG; NOG active protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	Lyophilized from a 0.2um filtered solution in 30% CH ₃ CN, 0.1% TFA. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MQHYLHIRPA PSDNLPLVDL IEHPDPIFDP KEKDLNETLL RSLLGGHYDP GFMATSPPED RPPGGGGGAAG GAEDLAELDQ LLRQRPSGAM PSEIKGLEFS EGLAQGKKQR LSKKLRRKLQ MWLWSQTFCP VLYAWNDLGS RFWPRYVKVG SCFSKRSCSV PEGMVCKPSK SVHLTVLRWR CQRRGGQRCG WIPQYPIIS ECKCSC
Sequence Length	232
Source	E.Coli
Solubility	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.
Protein Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbcency value of 1.76 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of Noggin as a Reference Standard.
Biological Activity	The ED50 was determined by its ability to inhibit 5.0 ng/ml of BMP-4 induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The expected ED50 for this effect is 0.05-0.08 ug/ml of Noggin, corresponding to a Specific Activity of 12,500-20,000units/mg
Preparation and Storage	Should be stored desiccated below -18 degree C. Upon reconstitution Noggin should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for NOG active protein	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 46.2 kDa (each chain 23.1 kDa).Noggin is purified by proprietary chromatographic techniques.
Product Categories/Family for NOG active protein	Cytokines and Growth Factors; Growth Factors; Noggin

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885523
NCBI GeneID	9241
NCBI Accession #	NP_005441.1

NCBI GenBank Nucleotide #	NM_005450.4
UniProt Accession #	Q13253
NCBI Official Full Name	noggin
NCBI Official Synonym Full Names	noggin
NCBI Official Symbol	NOG
NCBI Official Synonym Symbols	SYM1; SYNS1
NCBI Protein Information	noggin; symphalangism 1 (proximal)
UniProt Protein Name	Noggin
UniProt Gene Name	NOG
UniProt Entry Name	NOGG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/active-protein/noggin/38222>