

Catalog Number: HZ-1118-GMP

Data Sheet





Animal Component-Free

Human cell expressed

Tag-Free

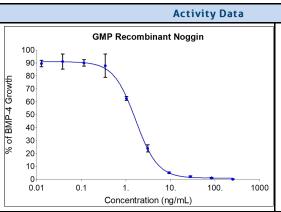
Endotoxin Free

Product Description

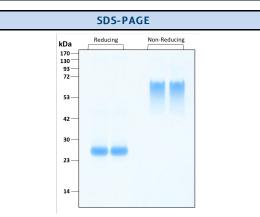
Animal-free Recombinant Human Noggin is expressed in an engineered human 293 cell expression system with serum- free, chemically defined media. The protein is a highly stable, authentically glycosylated, disulfide linked dimer. Recombinant Human Noggin is a 46 kDa disulfide-linked homodimer (120-10C) consisting of two 206 amino acid polypeptide chains. Monomeric glycosylated Noggin migrates at an apparent molecular weight of approximately 28.0-33.0 kDa by SDS-PAGE analysis under reducing conditions.

| γ,,,,,,,, | | | | |
|--|--|--|--|--|
| Alternative Names NOG, noggin, SYM1, SYNS1 | | | | |
| Accession Number | Q13253 | | | |
| Source | Human Embryonic Kidney cells (HEK293). HEK293-derived Noggin protein | | | |
| Species Reactivity | human,mouse | | | |
| Adventitious Virus | Adventitious Virus Master Cell Bank tested Negative for Adventitious Viruses | | | |

| Specifications | | | | | |
|-------------------|---|--|--|--|--|
| Test | Method | Specification | | | |
| Activity | Dose dependent inhibition of rh-BMP-4 induced alkaline phosphate production by ATDC5 cells using pNPP as chromogenic substrate. | 1.5-15 ng/mL EC50 | | | |
| Molecular Mass | SDS-PAGE | 28 kDa reduced, 50 to 95 kDa non-reduced, homodimer, glycosylated | | | |
| Purity | SDS-PAGE | >95% | | | |
| Endotoxin | LAL | <0.1 EU/µg | | | |
| Mycoplasma | PCR | Not Detected | | | |



Recombinant human Noggin (HZ-1118-GMP) inhibits dose-dependent induction of alkaline phosphatase production by BMP-4 in the ATDC-5 mouse chondrogenic cell line. Alkaline phosphatase production was assessed using pNPP as a chromogenic substrate. ATDC-5 cells were treated with increasing concentrations of recombinant human Noggin



Purity of recombinant human Noggin was determined by SDS- polyacrylamide gel electrophoresis. The protein was resolved in an SDS- polyacrylamide gel in reducing and non-reducing conditions and stained using Coomassie blue.

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Data Sheet Version #: 1

Proteintech Group, Inc.

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| Preparation | | | | |
|--|--|--|--|--|
| Shipping Temperature | | | | |
| Formulation | tion 1x PBS, See Certificate of Analysis for details | | | |
| Reconstitution Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS pH 7.4 cont endotoxin-free recombinant human serum albumin (HSA). | | | | |

| Stability and Storage | Product Form | Temperature Conditions | Storage Time (From Date of Receipt) |
|-----------------------|---------------------------|------------------------------------|--|
| | Lyophilized | -20°C to -80°C | Until Expiry Date |
| | Lyophilized | Room Temperature | 2 weeks |
| | Reconstituted as per CofA | -20°C to -80°C | 6 months |
| | Reconstituted as per CofA | 4°C | 1 week |
| | | Avoid repeated freeze-thaw cycles. | |

Proteintech GMP Quality Policy HumanKine® GMP Proteins

Invitro recombinant protein production can be prone to variability due to various reasons ranging from quality of raw materials to inconsistency in the process. Therefore, HumanKine®, a proteintech brand's GMP proteins are produced and tested under an ISO 13485 certified quality management system in a clean room facility. Proteintech manufactures the GMP HumanKine® products according to the applicable sections in the following documents: USP Chapter 1043 (Ancillary Materials for Cell, Gene, and Tissue-Engineered Products, USP Chapter 92 (Growth Factors and Cytokines Used in Cell Therapy Manufacturing), WHO TRS, No. 822, 1992 Annex 1 (Good Manufacturing Practices for Biological Products), Ph. Eur. General Chapter 5.2.12, and EudraLex – Volume 4 – Part IV (Guidelines on GMP specific to ATMPs). Proteintech strives to achieve the utmost quality GMP raw material ensuring all applicable guidelines are taken into consideration.

The QMS is built to provide our customers with consistent and pure product delivered by documented processes, qualified personnel, validated processes, qualified equipment, qualified vendors, and a stringent final product release process. Although the final product release process is important, Proteintech performs in-process QC steps after each major manufacturing stage. Production records and facilities may be available for an inspection by approved personnel.

Our GMP policy covers all the aspects of production; from raw materials, facility, equipment, and Instruments to training and personal hygiene of staff. It also guarantees that the process is explicit, validated and well documented for transparency and traceability.

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