ANGIO-PROTEOMIE
HIGH QUALITY REAGENTS FOR LIFE SCIENCES

DATA SHEET

# Noggin Human Recombinant

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| **Item Number** | rAP-2382 |
| **Synonyms** | SYM1, SYNS1, NOG. |
| **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. |
| **Uniprot Accesion Number** | Q13253 |
| **Amino Acid Sequence** | MQHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEKDLNETLLRSLLGGHYDPGF-MATSPPEDRPGGGGGAAGGAEDLAELDQLLRQRPSGAMPSEIKGLEFSEGLAQGKKQRLSKKLRRKLQM WLWSQTFCPVLYAWNDLGSRFWPRYVKVGSCFSKRSCSVPEGMVCKPSKSVHLTVLRWRCQRRGGQR CGWIPIQYPIISECKCSC. |
| **Source** | Escherichia Coli. |
| **Physical Appearance and Stability** | Sterile Filtered White lyophilized (freeze-dried) powder. 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 prevent freeze-thaw cycles. |
| **Formulation and Purity** | Lyophilized from a 0.2μm filtered solution in 30% CH3CN, 0.1% TFA. Greater than 95.0% as determined by SDS-PAGE. |
| **Application** | |
| **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. |
| **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 μg/ml of Noggin, corresponding to a Specific Activity of 12,500-20,00 |
| **Shipping Format and Condition** | Lyophilized powder at room temperature. |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for Research Use Only

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