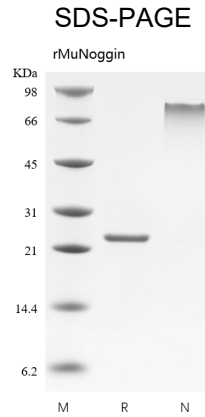


Noggin

Recombinant Mouse Noggin

| | | | |
|---------------------------------|--|------------------|--------------------------|
| Catalog No. | CSI20130A CSI20130B CSI20130C | Quantity: | 5 µg 100 µg 500 µg |
| Alternate Names: | Noggin | | |
| Description: | <p>Noggin belongs to a group of diffusible proteins which bind to ligands of the TGF-β family and regulate their activity by inhibiting their access to signaling receptors. Noggin was originally identified as a BMP-4 antagonist whose action is critical for proper formation of the head and other dorsal structures. Noggin has been shown to modulate the activities of other BMPs including BMP-2,-7,-13, and -14. Targeted deletion of Noggin in mice results in prenatal death and recessive phenotype displaying a severely malformed skeletal system. Conversely, transgenic mice over-expressing Noggin in mature osteoblasts display impaired osteoblastic differentiation, reduced bone formation, and severe osteoporosis.</p> <p>Mature mouse Noggin shares 99 % and 83 % a.a. sequence identity with human and Xenopus Noggin, respectively.</p> | | |
| UniProt ID: | P97466 | | |
| Gene ID: | 18121 | | |
| Source: | <i>E. coli</i> | | |
| Molecular Weight: | ~46.4 kDa (two 206 aa) disulfide linked homodimer | | |
| Formulation: | Lyophilized from a sterile filtered concentrated solution in 30% acetonitrile, 0.1% TFA | | |
| Purity: | >95% by SDS-PAGE and HPLC | | |
| Endotoxin Level: | <1 EU/µg by LAL analysis | | |
| Biological Activity: | ED ₅₀ < 2.0 ng/ml, determined by inhibition of BMP-4-induced (5 ng/ml) alkaline phosphatase production by murine ATDC5 cells. | | |
| Specific Activity: | > 5.0 x 10 ⁵ IU/mg. | | |
| Amino Acid Sequence: | MQHYLHIRPAPSDNLPLVDLIEHPDPIFDPKKEDLNETLLRSLGHHYDPGFMATSPPED RPPGGGGPAGGAEDLAELDQLLRQRPSPGAMPSEIKGLEFSEGLAQGKKQRLSKKLRR KLQMWLWSQTCPVLYAWNDLGSRFWPRYVKVGSFCFSKRSCSV PEGMVCKPSK SVHLTVLRWR CQRRGGQRCG WIPIQYPIIS ECKCSC | | |
| Reconstitution: | Centrifuge vial prior to opening. Reconstitute in 10 mM HAc to a concentration less than 0.25 mg/mL. Further dilutions should be made in appropriate buffered solutions. | | |
| Storage & Stability: | Upon receipt, store unopened at -20°C to -80°C for up to 1 year. Upon reconstitution under sterile conditions, store at 2-8°C for up to one month or in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles. | | |





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