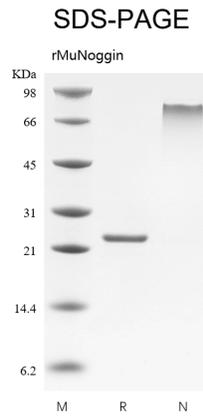


Noggin

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:	MQHYLHIRPAPSDNLPLVDLIEHPDPIFDPKKEDLNELTLLRSLGHHYDPGFMATSPPED 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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