

Product Datasheet Recombinant Human NOGGIN (rHuNOGGIN) (orb1494945)

Description	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. Consequently, 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.
Endotoxins	Less than 1EU/ g of rHu NOGGIN as determined by LAL method.
Preservatives	Lyophilized from a 0.2 μm filtered concentrated solution in 30% acetonitrile, 0.1% TFA.
Form/Appearance	Lyophilized from a 0.2 μ m filtered concentrated solution in 30% acetonitrile, 0.1% TFA.
Storage	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.
Note	For research use only
Application notes	We recommend that this vial 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. Stock solutions should be apportioned into working aliquots and stored at -20°C. Further dilutions should be made in appropriate buffered solutions.

Biorbyt Ltd.

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Protein Sequence	MQHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEKDLNETLLRSLLGGHYDPGFMATSPPEDRP GGGGGAAGGAEDLAELDQLLRQRPSGAMPSEIKGLEFSEGLAQGKKQRLSKKLRRKLQM WLWSQTFCPVLYAWNDLGSFWPRYVKVGSCFSKRSCSVPEGMVCKPSKSVHLTVLRWRC QRRGGQRCG WIPIQYPIIS ECKCSC
Purity	> 95% by SDS-PAGE and HPLC analyses.
Source	Escherichia coli.
MW	Approximately 46.2 kDa non-disulfide-linked homodimer consisting of two 206 amino acid polypeptide chains.
Expiration Date	6 months from date of receipt.

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