Recombinant Human Noggin

CATALOG #: 4675-20 20 µg

4675-50 50 μg 4675-100 100 μg 4675-1000 1 mg

SOURCE: E.coli

PURITY: >95% by SDS-PAGE and HPLC

MOL. WEIGHT: 23.1 kDa

FORM: Sterile filtered and lyophilized with no additives

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1 to 1.0 mg/ml. **Note: Due to solubility reasons the protein should be kept at low pH.** This solution can then be diluted into other aqueous buffers and stored at 4 °C for 1 week or -20 °C for future use.

STORAGE CONDITIONS:

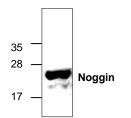
The lyophilized protein is best-stored desiccated below 0°C. Reconstituted human Noggin should be stored at working aliquots at -20°C.

DESCRIPTION:

Noggin belongs to a group of diffusible proteins which bind to ligands of the TGF-beta 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. Recombinant human Noggin is a 23.1 kDa non-disulfide-linked homodimer consisting of a total of 206 amino acid residues.

ACTIVITY:

Determined by its ability to inhibit 5 ng/ml of BMP-4-induced alkaline phosphatase production by ATDC chondrogenic cells. The expected ED₅₀ for the effect is 0.05-0.08 μ g/ml of Noggin.



Cat. #: 4675-20 Purity of recombinant human Noggin (2 µg) was analyzed by reduced SDS-PAGE electrophoresis.

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