

Recombinant Human Noggin

Cat. # and size:	PNOGGIN-10	10 µg
	PNOGGIN-100	100 µg
	PNOGGIN-1000	1000 µg

Product Specifications

- Expression of Human Proteins in Human Cells
- Extreme low Endotoxin
- High Purity
- Animal Free and Xeno Free
- Tag Free

Source: Human cells derived

Structure: Glycosylated monomer

Purity: >95% by SDS-PAGE

Endotoxin Level: <0.5EU/ug

Molecular Weight: 65kDa

Formulation: Lyophilized from a 0.2µm filtered solution in PBS without carrier protein

Activity Assay

The activity was measured by its ability to induce alkaline phosphatase production in the ATDC-5 cell line (Mouse chondrogenic cell line).

Reconstitution

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing at least 0.1% human or bovine serum albumin to a desired concentration.

Stability & Storage

Store in a manual defrost freezer. In general, the lyophilized protein is stable for 12 months if stored at -80°C. Reconstituted protein is stable for 4 weeks at 2 to 8°C under sterile conditions. Store the reconstituted protein in aliquots at -20°C to -80°C for up to 3 months under sterile conditions. Avoid repeated freeze-thaw cycles.

Protein Description

Noggin belongs to a group of diffusible proteins that bind to ligands of the TGF-β family, and regulate their activity by inhibiting their access to signaling receptors. Noggin is expressed in defined areas of the adult central nervous system and peripheral tissues such as lung, skeletal muscle and skin. Noggin has been shown to modulate the activities of other BMPs, which is required for growth and patterning of the neural tube and somite, and essential for cartilage morphogenesis and joint formation. Noggin also inhibits chondrocyte differentiation through its interaction with GDF5.

References

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Groppe J, et al. (2002) Nature 420,636-642.

Brunet LJ, et al. (1998) Science 280,1455