Recombinant Human Noggin

Cat. #: SNG-010

Product Specifications

- Expression of Human Proteins in Human Cells
- Extremely Low Endotoxin Level
- High Purity
- Animal Free and Xeno Free
- Tag Free

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

Schwaerzer GK, et al. (2012) J. Bone Miner. Res. 27, 429-442.

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

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

Source: Derived from human cells

Size: 10 µg

Shipping: Ambient temperature

Structure: Glycosylated monomer

Purity: >95% by SDS-PAGE

Endotoxin Level: <0.5 EU/µg

Molecular Weight: 65 kDa

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

Activity Assay

Activity was measured by the inhibition of BMP-4 induced 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 4 mM HCl containing at least 0.1% human or bovine serum albumin.

Stability and Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80° C as supplied. 1 month, 2 to 8° C under sterile conditions after reconstitution. 3 months, -20 to -80° C under sterile conditions after reconstitution.

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