

Recombinant Human, Noggin / Noggin, Animal Free & Carrier-free

Cat #: C-CYP386

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

Product Overview

Noggin is a bioactive protein intended for use in cell culture applications. Noggin protein which binds to ligands of the TGF-β family and regulates 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.

Product Information

Source: *Escherichia Coli*.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: Measure by its ability to inhibit BMP-4 -induced alkaline phosphatase production by ATDC5 cells.

The ED50 for this effect is <0.05 µg /mL in the presence of 50 ng/mL of recombinant human BMP-4.

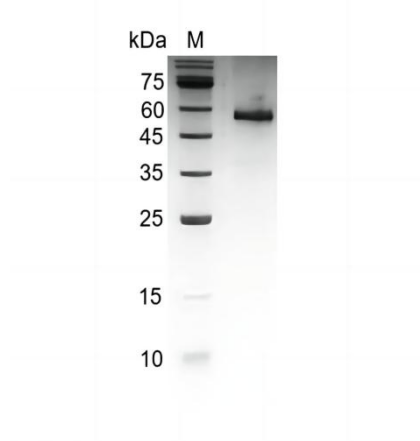
Endotoxin: <0.1EU per 1µg of the protein by the LAL method.

Amino acid sequence:

FDPKEKDLNETLLRSLGGHYDPGFMATSPPEDRPGGGGGAAGGAEDLAELDQLLRQPSGAMPSEIKGLEFSEGLAQGKKQRLSKLRR
KLQMWLWSQTFPCVLYAWNDLGSRFWPRYVKVGSCFSKRSCSVPEGMVCKPSKSVHLLTVLRWRCQRRGGQRCGWIPYIPISECKCSC

with polyhistidine tag at the C-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 7.4.



SDS-PAGE analysis of recombinant human Noggin

Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H₂O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 µg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.