

## Human recombinant Noggin protein, AF

Catalog Number: PROTQ13253-6

### Overview

Product Name	Human recombinant Noggin protein, AF
Description	Noggin is a 46.2 kDa bioactive protein, which exists as a disulfide-linked homodimer (each chain 23.1 kDa). Noggin binds members of the transforming Growth Factors-beta (TGF beta) superfamily signaling proteins, such as bone morphogenetic protein-4 (BMP-4), which inactivates their activities. As a extracellular antagonist of BMP proteins, Noggin involves in the development of many body tissues, including nerve tissue, muscles, and bones. In addition, Noggin is able to inhibit chondrocyte differentiation through its interaction with GDF5.
Size	5ug,20ug,100ug
Tag	Fc Tag (C-term)
Form	Lyophilized
Source	HEK293 cell
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>98% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 49.11 kDa. The protein migrates as 58 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Measure by its ability to inhibit BMP-4-induced alkaline phosphatase production by ATDC5 cells. The ED<sub>50</sub> for this effect is <0.05 ug/mL in the presence of 50 ng/mL of recombinant human BMP-4.

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### Amino Acid Sequence

MQHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEDLNETLLRSLGGHYDPGFMATSPPEDRPGGGGGAAGGAEDLAELDQLLRQPSGAMPSEIKGLEFS  
EGLAQGKKQRLSKKLRRKLQMWLWSQTFCPVLYAWNDLGSRFWPRYVKVGSCFSKRSCSVPEGMVCKPSKSVHLTVLRWRCQRRGGQRCGWIPQ  
YPIISECKCSC with Fc tag at the C-terminus.

### Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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