

### **Recombinant Human NOGGIN Protein**

Catalog Number: PROTQ13253-3

#### Overview

Product Name	Recombinant Human NOGGIN Protein
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. The interplay between TGF-beta ligands and their natural antagonists has major biological significance during development processes, in which cellular response can vary considerably depending upon the local concentration of the signaling molecule. 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 46 kDa disulfide-linked homodimer (120-10C) consisting of two 206 amino acid polypeptide chains. Monomeric glycosylated Noggin migrates at an apparent molecular weight of approximately 28.0-33.0 kDa by SDS PAGE analysis under reducing conditions.
Size	Various Sizes
Tag	
Form	Solid; white powder or thin/invisible film
Source	HEK293 cells
Formulation	Protein concentration verified by UV Spectroscopy and/or SDS-PAGE gel.

#### Concentration

### **Storage**

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

# **Purity**

# **Biological Activity And Protein Authenticity**

Determined by its ability to inhibit 5.0 ng/ml of BMP-4 induced alkaline phosphatase production by ATDC chondrogenic cells. The expected **ED**<sub>50</sub> for this effect is 2.0-3.0 ng/ml of Noggin.

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## Usage

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