

Datasheet for ABIN7455653

## NOG Protein (Fc Tag)



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### 1 Image

#### Overview

Quantity:	50 µg
Target:	NOG
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOG protein is labelled with Fc Tag.

#### Product Details

Purpose:	Recombinant Human Noggin is produced by our Mammalian expression system and the target gene encoding Gln28-Cys232 is expressed with a Fc tag at the C-terminus.
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	Greater than 95 % as determined by reducing SDS-PAGE.

#### Target Details

Target:	NOG
Alternative Name:	Noggin ( <a href="#">NOG Products</a> )
Background:	Noggin is a secreted homodimeric glycoprotein that is an antagonist of bone morphogenetic proteins (BMPs). Mature Human Noggin contains an N-terminal acidic region, a central basic heparin-binding segment and a C-terminal cysteine-knot structure. Noggin is very highly conserved among vertebrates, such that mature human Noggin shares 99 %, 99 %, 98 %, 97 %

## Target Details

and 89 % aa sequence identity with mouse, rat bovine, equine and chicken Noggin, respectively. Secreted Noggin probably remains close to the cell surface due to its binding of heparin-containing proteoglycans. Noggin binds some BMPs such as BMP4 with high affinity and others such as BMP7 with lower affinity. It antagonizes BMP bioactivities by blocking epitopes on BMPs that are needed for binding to both type I and type II receptors. Noggin is expressed in defined areas of the adult central nervous system and peripheral tissues such as lung, skeletal muscle and skin. During culture of human embryonic stem cells (hESC) or neural stem cells under certain conditions, addition of Noggin to antagonize BMP activity may allow stem cells to proliferate while maintaining their undifferentiated state, or alternatively, to differentiate into dopaminergic neurons.

Molecular Weight: 50.2 KDa

UniProt: [Q13253](#)

Pathways: [Stem Cell Maintenance](#), [Tube Formation](#)

## Application Details

Restrictions: For Research Use only

## Handling

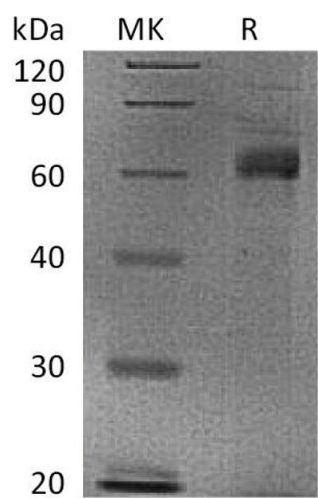
Format: Lyophilized

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Storage: -20 °C, -80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).  
Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months



**SDS-PAGE**

**Image 1.** Greater than 95 % as determined by reducing SDS-PAGE.