

# Human Noggin (His Tag) recombinant protein



Catalog Number: 504108

## General Information

### Protein Construction

A DNA sequence encoding the human Noggin precursor (NP\_005441.1) (Met 1-Cys 232) was fused with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to inhibit recombinant human BMP4 induced alkaline phosphatase production by MC3T3-E1 cells.  
The ED<sub>50</sub> for this effect is typically 0.05-0.3 µg/mL in the presence of 50 ng/mL of recombinant human BMP4.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Gln 28

### Molecular Mass

The recombinant human Noggin comprises 216 amino acids after removal of the signal peptide and has a predicted molecular mass of 24.6 kDa. As a result of glycosylation, rhNoggin migrates as an approximately 30 kDa band in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile PBS, pH 7.4  
1. 5 % trehalose and mannitol are added as protectants before lyophilization.  
2. Please contact us for any concerns or special requirements.

## Usage Guide

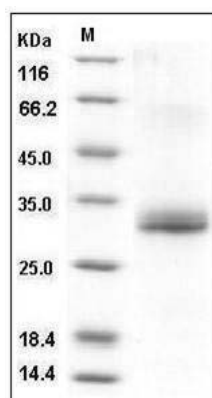
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human Noggin / NOG Protein (His Tag) SDS-PAGE