

## Human Noggin, Fc Tag, CHO

|                       |  |
|-----------------------|--|
| <b>Catalog Number</b> | LDG169PHM                                  |
| <b>Package</b>        | 5 µg / 20 µg / 100 µg / Customized package |

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Human

#### Affinity Tag

hlgG1 Fc (C-term)

#### Purity

>95% as determined by 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 µg/mL in the presence of 50 ng/mL of recombinant human BMP-4.

#### Mycoplasma

Not detected

#### Expression System

CHO

#### Storage Buffer

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

#### Molecular weight

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

#### Endotoxin Level

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

#### Form

Lyophilized

### Background

#### Tainan Headquarters

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### Background

Human Noggin is a secreted protein that inhibits bone morphogenetic proteins (BMPs), such as BMP-2, -4, and -7. It plays a key role in embryonic development, especially in neural and skeletal formation. By blocking BMP signaling, Noggin helps regulate cell differentiation and tissue patterning. Recombinant Human Noggin is commonly used in stem cell research and organoid culture to maintain pluripotency and control differentiation.

### Uniprot ID

Q13253

### Synonyms

Noggin, NOG, SYM1, SYNS1, SYNS1A, Symphalangism 1 (Proximal), Synostoses (Multiple) Syndrome 1

### Sequence Note

Gln28-Cys232

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

## Image

### Tainan Headquarters

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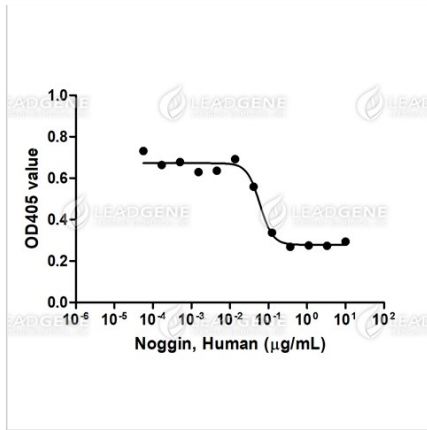
✉ [bd@leadgene.com.tw](mailto:bd@leadgene.com.tw)

### Innovation & Research Center

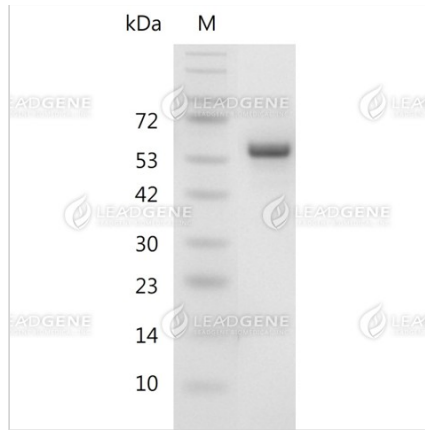
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Activity analysis of recombinant Human Noggin, Fc Tag, CHO. Measure by its ability to inhibit BMP-4-induced alkaline phosphatase production by ATDC5 cells. The ED<sub>50</sub> for this effect is <0.05 μg/mL in the presence of 50 ng/mL of recombinant human BMP-4.



SDS-PAGE analysis of recombinant human Noggin.

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