

## Human Noggin, Fc Tag, HEK293

**Catalog Number** LDG017PHM

**Package** 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

Human IgG1 Fc Tag (C-term)

#### Purity

>98% 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.

#### Form

Lyophilized

#### Expression System

HEK293

#### 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.

### Background

#### Tainan Headquarter

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#### CLD Center

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**Background**

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.

**Sequence Note**

Gln28-Cys232

**Uniprot ID**

Q13253

**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 Headquarter**

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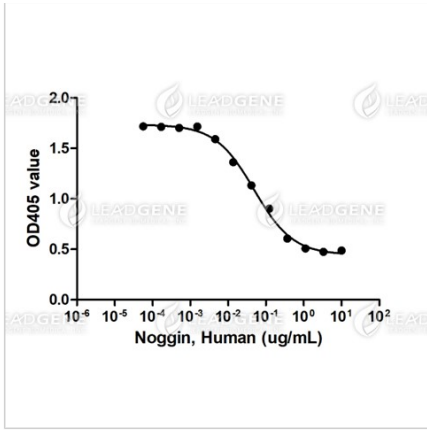
bd@leadgene.com.tw

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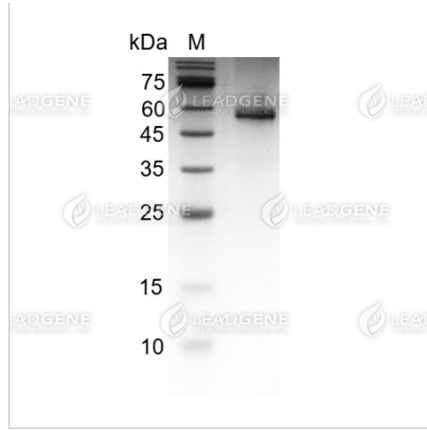
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Human Noggin, Fc Tag, HEK293 (LDG017PHM), inhibits BMP-4-induced alkaline phosphatase production by ATDC5 cells, with an ED50 of  $<0.05 \mu\text{g/mL}$ .



SDS-PAGE analysis of recombinant human Noggin

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