

### Noggin/ NOG (N-8His-Flag), Human, Recombinant

货号: PCK211

### 产品信息

别名 Noggin; NOG

物种 Human

表达宿主 Human Cells

序列信息 Gln28-Cys232

检索号 Q13253

分子量 23 kDa

生物活性 Measured by its ability to inhibit BMP-2-induced alkaline phosphatase production

by ATDC5 mouse chondrogenic cells The ED50 for this effect is 0.2 µg/mL in the

presence of 2000 ng/mL of Recombinant Human BMP-2.

## 产品特性

纯度 >95% as determined by reducing SDS-PAGE.

内毒素 <1.0 EU per μg as determined by LAL test.

保存 Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt.

Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at -5~-20°C for 3 months.

运输 Ambient temperature or ice pack.

制剂 Lyophilized from a 0.2 µm filtered solution of 20mM PB,500mM NaCl,2mM

EDTA,pH7.4.

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Rev. V1.0



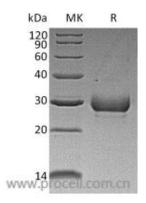
#### 复融

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml.Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

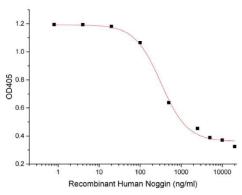
## 背景介绍

Noggin is a secreted homodimeric glyco Protein 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% 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.

#### SDS-PAGE



# 生物活性



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