RP00355

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Recombinant Human Noggin Protein

Catalog No.: RP00355 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
CHO cells	9241	Q13253

Tags
No Tag

Synonyms
Noggin; NOG; SYM1; SYNS1

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE

Endotoxin
< 1 EU/μg of the protein by LAL method

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Noggin is an antagonist of bone morphogenetic proteins (BMP), being indispensable for certain developmental events.Noggin expression positively correlated with EGFR expression in both GC cell line models and The Cancer Genome Atlas human GC cohort. Targeting EGFR and its downstream pathways diminished cell proliferation which was promoted by Noggin. Noggin promotes the proliferation of GC cells by upregulating EGFR and enhancing a vicious circle formed by β?catenin, EGFR, ERK and Akt.

Basic Information

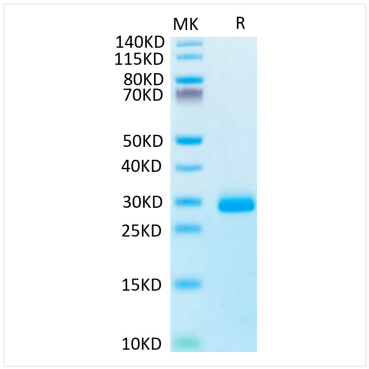
Description
Recombinant Human Noggin Protein is produced by CHO cells expression system. The target protein is expressed with sequence (Gln28-Cys232) of Human Noggin (Accession #Q13253) fused with No Tag.

Bio-Activity

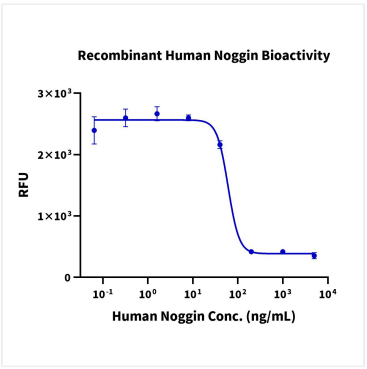
Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

* For your safety and health, please wear a lab coat and disposable gloves when handling.

Validation Data



Human Noggin on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



Measured by its ability to inhibit BMP-4-induced alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED_{50} for this effect is 4-80 ng/mL in the presence of 50 ng/mL of recombinant Human BMP□ 4.