

Active Recombinant Human NOG protein, His-tagged

Cat. No. NOG-4465H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NOG protein(Gln28-Cys232), fused with C-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	28-232 aa
Form	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized Human BMP2 at 1 µg/mL (100 µL/well) can bind Noggin with a linear range of 2-57 ng/mL. 2. Measured by its binding ability in a functional ELISA. Immobilized Human BMP4 at 0.5 µg/mL (100 µL/well) can bind Noggin with a linear range of 4-47 ng/mL. 3. Measured by its binding ability in a functional ELISA. Immobilized Human Noggin at 1 µg/mL (100 µL/well) can bind Noggin Rabbit pAb with a linear range of 1-3.5 ng/mL. 4. Measured by its ability to inhibit BMP-4-induced alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is 13.28-53.12 ng/mL in the presence of 50 ng/mL of recombinant human BMP-4, corresponding to a specific activity of 1.88×10^4-7.53×10^4 units/mg.
Molecular Mass	23.89 kDa

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Endotoxin	< 0.1 EU/μg of the protein by LAL method.
Purity	≥ 95 % as determined by SDS-PAGE.
Storage	Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

GENE INFORMATION

Gene Name	NOG noggin [Homo sapiens]
Official Symbol	NOG
Synonyms	NOG; noggin; SYM1, symphalangism 1 (proximal) , synostoses (multiple) syndrome 1 , SYNS1; symphalangism 1 (proximal); SYM1; SYNS1;
Gene ID	9241
mRNA Refseq	NM_005450
Protein Refseq	NP_005441
MIM	602991

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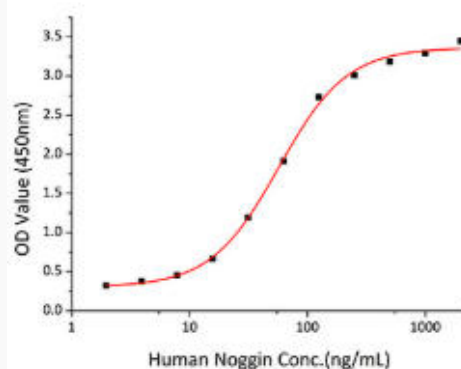
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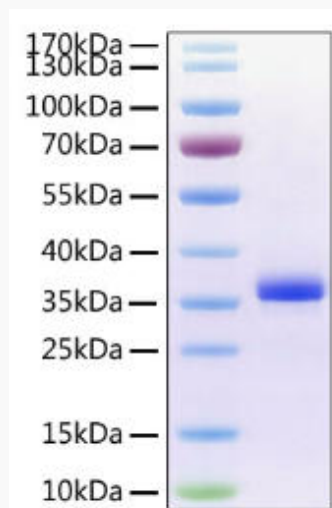
UniProt ID

Q13253

Activity



SDS-PAGE



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