

**HumanKine<sup>®</sup> Noggin (Recombinant Human)**



Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free
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**Product Description**

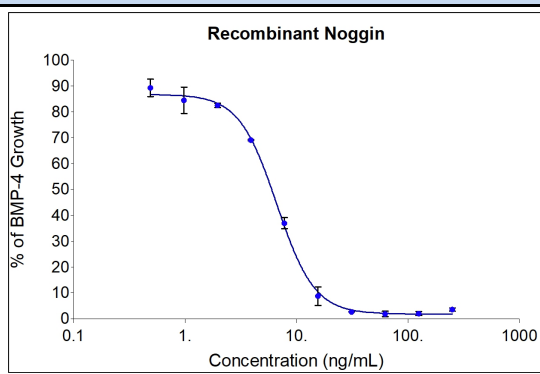
Animal-free Recombinant Human Noggin is expressed in an engineered human 293 cell expression system with serum-free, chemically defined media. The protein is a highly stable, authentically glycosylated, disulfide linked dimer. Recombinant Human Noggin is a 46 kDa disulfide-linked homodimer (120-10C) consisting of two 206 amino acid polypeptide chains. Monomeric glycosylated Noggin migrates at an apparent molecular weight of approximately 28.0-33.0 kDa by SDS-PAGE analysis under reducing conditions.

Alternative Names	NOG, noggin, SYM1, SYNS1
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived Noggin protein

**Specifications**

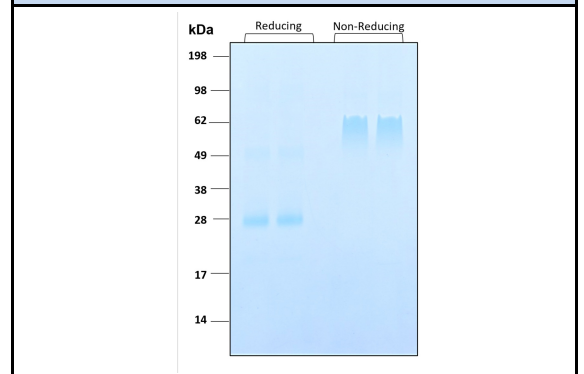
Test	Method	Specification
Activity	Dose-dependent inhibition of rh-BMP-4 induced alkaline phosphatase production by ATDC5 cells	1.5-15 ng/mL
Molecular Mass	SDS-PAGE	28 kDa reduced, 50 to 95 kDa non-reduced, homodimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/ $\mu$ g

**Activity Data**



Recombinant human Noggin (HZ-1118-GMP) inhibits dose-dependent induction of alkaline phosphatase production by BMP-4 in the ATDC-5 mouse chondrogenic cell line. Alkaline phosphatase production was assessed using pNPP as a chromogenic substrate. ATDC-5 cells were treated with increasing concentrations of recombinant human Noggin

**SDS-PAGE**



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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**Proteintech Group, Inc.**  
5500 Pearl Street, Suite 400 Rosemont, IL 60612  
t: 1-888-478-4522; f: 1-312-455-8408  
Email: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)