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Catalog Number: HZ-1118

Data Sheet

HumanKine® Noggin (Recombinant Human)

Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free

Product Description

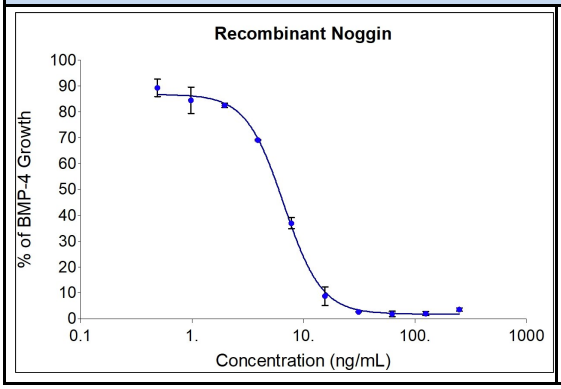
Animal-free Recombinant Human Noggin is expressed in an engineered human 293 cell expression system with serum- free, chemically defined media. The protein is a highly stable, authentically glycosylated, disulfide linked dimer. Recombinant Human Noggin is a 46 kDa disulfide-linked homodimer (120-10C) 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
Species Reactivity	human,mouse

Specifications

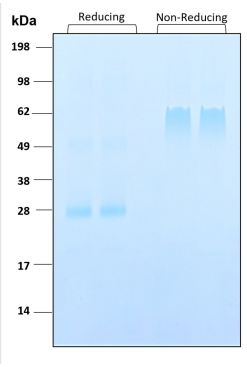
Test	Method	Specification
Activity	Dose-dependent inhibition of rh-BMP-4 induced alkaline phosphatase production by ATDC5 cells	1.5-15 ng/mL EC50
Molecular Mass	SDS-PAGE	65 kDa, homodimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

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



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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 in sterile 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
Stability and Storage	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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