



# Certificate of Analysis

## GMP Noggin Protein, Human (HEK293)

Cat. No.:	HY-P70558G
Batch No.:	272571
Species:	Human
Source:	HEK293
Tag:	C-6*His
Accession:	Q13253 (Q28-C232)
Gene ID:	9241
Molecular Weight:	Approximately 28-32 kDa

### ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	>99.90%
Endotoxin Level	<0.01 EU/μg, determined by LAL method.	PASS
Biological Activity	Measured by its ability to inhibit BMP-2-induced alkaline phosphatase production by ATDC5 mouse chondrogenic cells The ED <sub>50</sub> for this effect is ≤0.13 μg/mL in the presence of 2000 ng/mL of Recombinant Human BMP-2.	0.11 μg/mL
pH Value	7.4	
Host Cell Protein (ELISA)	<0.01 μg/mL	
Host Cell DNA (qPCR)	2 pg/mg	
Mycoplasma	Negative	
Sterility	PASS	
Appearance	Lyophilized powder.	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	
Shipping	Room temperature in continental US; may vary elsewhere.	

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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