

Noggin Protein, Human (205a.a, HEK293, Fc)

Cat. No.:	HY-P70542
Synonyms:	Noggin; NOG
Species:	Human
Source:	HEK293
Accession:	Q13253 (Q28-C232)
Gene ID:	9241
Molecular Weight:	Approximately 60.0 kDa

PROPERTIES

AA Sequence	<p> Q H Y L H I R P A P S D N L P L V D L I E H P D P I F D P K E K D L N E T L L R S L L G G H Y D P G F M A T S P P E D R P G G G G G A A G G A E D L A E L D Q L L R Q R P S G A M P S E I K G L E F S E G L A Q G K K Q R L S K K L R R K L Q M W L W S Q T F C P V L Y A W N D L G S R F W P R Y V K V G S C F S K R S C S V P E G M V C K P S K S V H L T V L R W R C Q R R G G Q R C G W I P I Q Y P I I S E C K C S C </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ 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.

DESCRIPTION

Background	<p>Noggin protein emerges as a crucial inhibitor in the intricate realm of bone morphogenetic proteins (BMP) signaling, playing indispensable roles in neural tube and somite growth, as well as contributing to the intricate processes of cartilage morphogenesis and joint formation. Operating through its homodimeric structure, Noggin establishes a significant interaction with GDF5, and likely GDF6, exerting its inhibitory influence on chondrocyte differentiation. This molecular interplay underscores Noggin's pivotal position in regulating key aspects of embryonic development, emphasizing its nuanced involvement in sculpting the intricate patterns and structures critical for proper growth and morphogenesis.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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