

## Animal-Free Nodal Protein, Human (His)

Cat. No.:	HY-P700025AF
Synonyms:	Nodal
Species:	Human
Source:	E. coli
Accession:	Q96S42 (H238-L347)
Gene ID:	4838
Molecular Weight:	Approximately 13.75 kDa

### PROPERTIES

AA Sequence	M H H L P D R S Q L    C R K V K F Q V D F    N L I G W G S W I I    Y P K Q Y N A Y R C E G E C P N P V G E    E F H P T N H A Y I    Q S L L K R Y Q P H    R V P S T C C A P V K T K P L S M L Y V    D N G R V L L D H H    K D M I V E E C G C    L
Biological Activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED <sub>50</sub> for this effect is <2.2 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
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	Nodal protein plays a pivotal role in embryonic development, serving as an indispensable factor for both mesoderm formation and axial patterning. As a homodimer held together by disulfide linkages, Nodal contributes to the molecular framework that governs essential developmental pathways, ensuring the proper establishment of mesodermal tissues and axial structures during embryogenesis. This protein, free from animal-derived components, underscores its suitability for applications demanding stringent purity and ethical considerations in research and biotechnological endeavors.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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