Nidogen-1 Protein, Mouse (P.pastoris, His)

Cat. No.:	HY-P71763
Synonyms:	Nid1; Ent; Nidogen-1; NID-1; Entactin
Species:	Mouse
Source:	P. pastoris
Accession:	P10493 (428S-665A)
Gene ID:	18073
Molecular Weight:	Approximately 28.3 kDa

PROPERTIES

AA Sequence	S P Q R V N G K V K G R I F V G S S Q V P V V F E N T D L H S Y V V M N H G R S Y T A I S T I P E T V G Y S L L P L A P I G G I I G W M F A V E Q D G F K N G F S I T G G E F T R Q A E V T F L G H P G K L V L K Q Q F S G I D E H G H L T I S T E L E G R V P Q I P Y G A S V H I E P Y T E L Y H Y S S S V I T S S S T R E Y T V M E P D Q D G A A P S H T H I Y Q W R Q T I T F Q E C A H D D A R P A L P S T Q Q L S V D S V F V L Y N K E E R I L R Y A L S N S I G P V R D G S P D A
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	Nidogen-1 protein, a sulfated glycoprotein, exhibits a broad distribution within basement membranes and forms a close association with laminin. This versatile protein extends its binding capabilities to collagen IV and perlecan, implying its involvement in diverse cell-extracellular matrix interactions. Nidogen-1 plays a pivotal role in mediating these interactions by engaging with various partners, including FBLN1, LGALS3BP, and PLXDC1. Its associations with these proteins highlight its multifaceted involvement in the complex network of molecular interactions within the extracellular matrix. These interactions likely contribute to the regulation of cellular processes and structural integrity in various tissues and underscore the importance of nidogen-1 in maintaining the dynamic equilibrium of the extracellular microenvironment.

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

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