

NlpD Protein, E.coli (His-SUMO)

Cat. No.:	HY-P71498
Synonyms:	nlpD; b2742; JW2712Murein hydrolase activator NlpD
Species:	E.coli
Source:	E. coli
Accession:	P0ADA3 (26C-379R)
Gene ID:	58389980
Molecular Weight:	Approximately 53.5 kDa

PROPERTIES

AA Sequence	<pre> C S D T S N P P A P V S S V N G N A P A N T N S G M L I T P P P K M G T T S T A Q Q P Q I Q P V Q Q P Q I Q A T Q Q P Q I Q P V Q P V A Q Q P V Q M E N G R I V Y N R Q Y G N I P K G S Y S G S T Y T V K K G D T L F Y I A W I T G N D F R D L A Q R N N I Q A P Y A L N V G Q T L Q V G N A S G T P I T G G N A I T Q A D A A E Q G V V I K P A Q N S T V A V A S Q P T I T Y S E S S G E Q S A N K M L P N N K P T A T T V T A P V T V P T A S T T E P T V S S T S T S T P I S T W R W P T E G K V I E T F G A S E G G N K G I D I A G S K G Q A I I A T A D G R V V Y A G N A L R G Y G N L I I I K H N D D Y L S A Y A H N D T M L V R E Q Q E V K A G Q K I A T M G S T G T S S T R L H F E I R Y K G K S V N P L R Y L P Q R </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
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.
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	NlpD, a crucial protein in bacterial physiology, functions as an activator of the cell wall hydrolase AmiC. Its indispensable role is highlighted in the process of septal murein cleavage, a vital step for ensuring proper daughter cell separation during cell division. The concerted action of NlpD and AmiC underscores their significance in maintaining the integrity and functionality of the bacterial cell wall, ultimately contributing to the successful progression of cell division.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA