

NADH pyrophosphatase Protein, E. coli O157:H7, Recombinant (His)

General Information

Synonyms:	DeNADding enzyme NudC;nudC;NADH pyrophosphatase;NAD-capped RNA hydrolase NudC
Protein Construction:	1-257 aa
Species:	E. coli
Expression Host:	E. coli
Accession:	Q8X6X7
Molecular Weight:	33.8 kDa (predicted)
AA Sequence:	MDRIIEKLDHGWWVVSHEQKLWLPKGELPYGEAANFDLVGQRALQIGEWQGEVWLIQQQRRYDMGMSVRQ VIDLDVGLFQLAGRGVQLAEFYRSHKYCGYCGHEMYPSTKEWAMLCSHCRERYYPQIAPCIIVAIRRDDSILLA QHTRHRNGVHTVLAGFVEVGETLEQAVAREVMEESGIKVKHLRYVTSQPWPFQSLMTAFMAEYDSGDIVID PKELLEANWYRYDDLPLPPPGTVARRLIEDTVAMCRAEYE

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
Stability & Storage:	Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>

Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.
-----------	--

Protein Background

mRNA decapping enzyme that specifically removes the nicotinamide adenine dinucleotide (NAD) cap from a

A DRUG SCREENING EXPERT

subset of mRNAs by hydrolyzing the diphosphate linkage to produce nicotinamide mononucleotide (NMN) and 5' monophosphate mRNA. The NAD-cap is present at the 5'-end of some mRNAs and stabilizes RNA against 5'-processing. Has preference for mRNAs with a 5'-end purine. Catalyzes the hydrolysis of a broad range of dinucleotide pyrophosphates.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481