

## AR09992PU-L

## E. coli Endonuclease III / nth (1-211, His-tag) - Purified

**Alternate names:**

DNA-(apurinic or apyrimidinic site) lyase, JW1625, b1633

**Quantity:**

0.25 mg

**Concentration:**

0.5 mg/ml (determined by Bradford assay)

**Background:**

Nth, also known as Endonuclease III, has an apurinic and/or apyrimidinic endonuclease activity and a DNA N-glycosylase activity. This enzyme incises damaged DNA at cytosines, thymines and guanines. Nth acts on a damaged strand, 5' from the damaged site. This enzyme is required for the repair of both oxidative DNA damage and spontaneous mutagenic lesions.

**Uniprot ID:**

[P0AB83](#)

**NCBI:**

[AP\\_002255](#)

**GeneID:**

[947122](#)

**Species:**

E. coli

**Source:**

E. coli

**Format:**

**State:** Liquid purified protein

**Purity:** >85%

**Buffer System:** 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.1M NaCl, 1mM DTT, 0.1mM PMSF

**Description:**

Recombinant E.coli nth protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

**AA Sequence:**

MGSSHHHHHH SSGLVPRGSH MNKAKRLEIL TRLRENNPHP TTELNFSSPF ELLIAVLLSA  
QATDVSVNKA TAKLYPVANT PAAMLELGVE GVKTYIKTIG LYNKAENII KTCRILLEQH  
NGEVPEDRAA LEALPGVGRK TANVVLNTAF GWPTIAVDTH IFRVCNRTQF APGKNVEQVE  
EKLLKVVPAE FKVDCHHWLI LHGRYTCIAR KPRCGSCIIE DLCEYKEKVD I

**Molecular weight:** 25.7 kDa (231aa) confirmed by MALDI-TOF

**Storage:**

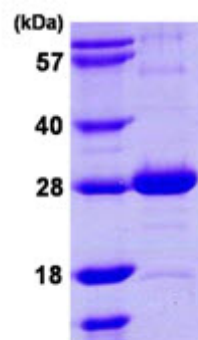
Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

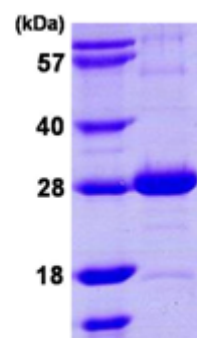
Shelf life: one year from despatch.

**Pictures:**

Recombinant E.coli nth, 1-211aa, His-tagged



15% SDS-PAGE (3ug)



15% SDS-PAGE (3ug)