

Recombinant E.coli Nth, His-tagged

Cat. No. nth-989E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E.coli nth protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography (1-211aa).
Species	E.coli
Source	E.coli
Description	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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.1M NaCl, 1mM DTT, 0.1mM PMSF
Molecular Weight	25.7 kDa (231aa) confirmed by MALDI-TOF
Purity	> 85% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MNKAKRLEIL TRLRENNPHP TTELNFSSPF ELLIIVLLSA QATDVSVNKA TAKLYPVANT PAAMLELGVE GVKTYIKTIG LYNSKAENII KTCRILLEQH NGEVPEDRAA LEALPGVGRK TANVVLNTAF

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GWPTIAVDTH IFRVCNRTQF APGKNVEQVE EKLLKVVP AE FKVDCHHWLI
LHGRYTCIAR KPRCGSCIIE DLCEYKEKVD I

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION**Gene Name**

nth DNA glycosylase and apyrimidinic (AP) lyase (endonuclease III) [*Escherichia coli* str. K-12 substr. MG1655]

Synonyms

nth; ECK1629; JW1625; DNA glycosylase and apyrimidinic (AP) lyase (endonuclease III); NP_416150.1; EC 4.2.99.18; endonuclease III; specific for apurinic and/or apyrimidinic sites

Gene ID

947122

Protein Refseq

NP_416150

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