

## NTH E.Coli

**Description:** NTH E.Coli Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 231 amino acids (1-211a.a.) and having a molecular mass of 25.7kDa. The NTH is purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-139

For research use only.

**Synonyms:** DNA-(apurinic or apyrimidinic site) lyase, b1633, JW1625.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MNKAKRLEIL TRLRENNPHP  
TTLENFSSPF ELLIAVLLSA QATDVSVNKA TAKLYPVANT PAAMLELGVE GVKTYIKTIG  
LYNSKAENII KTCRILLEQH NGEVPEDRAA LEALPGVGRK TANVVLNTAF GWPTIAVDTH  
IFRVCNRTQF APGKNVEQVE EKLLKVPAE FKVDCHHWLI LHGRYTCIAR KPRCGSCIIE  
DLCEYKEKVD I

**Purity:** Greater than 85.0% as determined by SDS-PAGE.

**Formulation:**

The NTH solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH8.0), 0.1M NaCl, 1mM DTT, 0.1mM PMSF and 40% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Endonuclease III (nth) is a DNA repair enzyme which has both DNA N-glycosylase activity and AP-lyase activity. The DNA N-glycosylase activity releases numerous damaged pyrimidines from DNA by cleaving the N-glycosidic bond and leaving an AP (apurinic/apyrimidinic) site. This AP-lyase activity cleaves the phosphodiester bond 3' to the AP site by a beta-elimination, thus leaving a 3'-terminal unsaturated sugar and a product with a terminal 5'-phosphate.

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