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32-2617: NTH Recombinant Protein

Alternative Name : DNA-(apurinic or apyrimidinic site) lyase,b1633,JW1625.

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount :	10 µg
Purification :	Greater than 85.0% as determined by SDS-PAGE.
Content :	The NTH solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH8.0), 0.1M NaCl, 1mM DTT, 0.1mM PMSF and 40% glycerol.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MNKAKRLEIL TRLRENNPHP TTELNFSSPF ELLIAVLLSA QATDVSVNKA TAKLYPVANT PAAMLELGVE GVKTYIKTIG LYNSKAENII KTCRILLEQH NGEVPEDRAA LEALPGVGRK TANVVLNTAF GWPTIAVDTH IFRVCNRTQF APGKNVEQVE EKLLKVVPAE FKVDCHHWLI LHGRYTCIAR KPRCGSCIIE DLCEYKEKVD I.