

nth, 1-211aa, E.coli, His tag, E.coli

Cat.NO.: TP03213

3th Edition

Synonyms:Endonuclease III, b1633, JW1625, DNA-(apurinic or apyrimidinic site) lyase

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

Sequences:

MGSSHHHHHHSSGLVPRGSHMNKAKRLEILTRLRENNPHPTTELNFSSPFELLIIVLLSAQATDVSVNKATAKLYPV
ANTPAAMLELGVEGVKTYIKTIGLYNSKAENIIKTCRILLEQHNGEVPEDRAALEALPGVGRKTANVVLNTAFGWPTIA
VDTHIFRVCNRTQFAPGKNVEEQVEEKLLKVVPAEFKVDCHHWLILHGRYTCIARKPRCGSCIIEDLCEYKEKVDI

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.