

# Recombinant Human Nth Endonuclease III-Like 1 (E. coli), His-tagged

Cat. No. NTHL1-2488H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human NTHL1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography. MW: 36.6 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-312aa
<b>Description</b>	NTHL1 is one of the enzyme that has been shown to act on a large number of oxidatively damaged DNA sites. It has an apurinic and/or apyrimidinic endonuclease activity and a DNA N-glycosylase activity. It acts on a damaged strand, 5' from the damaged site and incises damaged DNA at cytosines, thymines and guanines.
<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT.
<b>Molecular Mass</b>	36.6 kDa (332aa), confirmed by MALDI-TOF.
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MCSPQESGMT ALSARMLTRS RSLGPGAGPR GCREEPGPLR RREAAAEARK SHSPVKRPRK AQRLRVAYEG SDSEKGEAE PLKVPVWEPQ DWQQQLVNIR AMRNKKDAPV DHLGTEHCYD SSAPPKVERRY QVLLSLMLSS QTKDQVTAGA MQRRLRARGLT VDSILQTDDA TLGKLIYPVG FWRSKVKYIK QTSAILQQHY GGDIPASVAE LVALPGVGP MAHLAMAVAW

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GTVSGIAVDT HVHRIANRLR WTKKATKSPE ETRAALEEWL PRELWHEING  
LLVGFGQQTCLP VHP RCHAC LNQALCPAAQ GL

**Purity** >80% by SDS - PAGE

**Applications** SDS-PAGE

**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.

**Concentration** 0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** NTHL1 nth endonuclease III-like 1 (E. coli) [ Homo sapiens ]

**Official Symbol** NTHL1

**Synonyms** NTHL1; nth endonuclease III-like 1 (E. coli); nth (E.coli endonuclease III) like 1; endonuclease III-like protein 1; NTH1; OCTS3;

**Gene ID** 4913

**mRNA Refseq** NM\_002528

**Protein Refseq** NP\_002519

**MIM** 602656

**UniProt ID** P78549

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<b>Chromosome Location</b>	16p13.3
<b>Pathway</b>	Base Excision Repair, organism-specific biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Base-Excision Repair, AP Site Formation, organism-specific biosystem; Base-free sugar-phosphate removal via the single-nucleotide replacement pathway, organism-specific biosystem; Cleavage of the damaged pyrimidine, organism-specific biosystem; DNA Repair, organism-specific biosystem;
<b>Function</b>	4 iron, 4 sulfur cluster binding; DNA N-glycosylase activity; DNA binding; DNA-(apurinic or apyrimidinic site) lyase activity; double-stranded DNA binding; endonuclease activity; hydrolase activity, acting on glycosyl bonds; lyase activity; metal ion binding; protein binding;

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