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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	1-312aa
Description	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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT.
Molecular Mass	36.6 kDa (332aa), confirmed by MALDI-TOF.
AA Sequence	MGSSHHHHHH SSGLVPRGSH MCSPQESGMT ALSARMLTRS RSLGPGAGPR GCREEPGPLR RREAAAEARK SHSPVKRPRK AQRLRVAYEG SDSEKGEGAE PLKVPVWEPQ DWQQQLVNIR AMRNKKDAPV DHLGTEHCYD SSAPPKVRRY QVLLSLMLSS QTKDQVTAGA MQRLRARGLT VDSILQTDDA TLGKLIYPVG FWRSKVKYIK QTSAILQQHY GGDIPASVAE LVALPGVGPK MAHLAMAVAW

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	GTVSGIAVDT HVHRIANRLR WTKKATKSPE ETRAALEEWL PRELWHEING LLVGFGQQTC LPVHPRCHAC 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Chromosome Location	16p13.3
Pathway	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;
Function	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;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA