

# Recombinant human NTH1 protein

Catalog Number: ATGP1217

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-312aa

### UniProt No.

P78549

### NCBI Accession No.

NP\_002519.1

### Alternative Names

Endonuclease III-like protein 1, NTH1, OCTS3

## PRODUCT SPECIFICATION

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### Molecular Weight

36.6 kDa (332aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT

### Purity

> 80% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

NTHL1, also known as nth endonuclease III-like protein 1, 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. Recombinant human NTHL1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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## Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH> MCSPQESGMT ALSARMLTRS RSLGPGAGPR GCREEPGPLR RREAAAEARK  
SHSPVKRPRK AQRLRVAYEG SDSEKGEAE PLKVPVWEPQ DWQQQLVNIR AMRNKKDAPV DHLGTEHCYD SSAPPKVRRY  
QVLLSLMLSS QTKDQVTAGA MQLRARGLT VDSILQTTDA TLGKLIYPVG FWRSKVYIK QTSAILQQHY GGDIPASVAE  
LVALPGVGP MAHLAMAVAW GTVSGIAVDT HVHRIANRLR WTKKATKSPE ETRAALAEWL PRELWHEING LLVGFGQQT  
LPVHPRCHAC LNQALCPAAQ GL

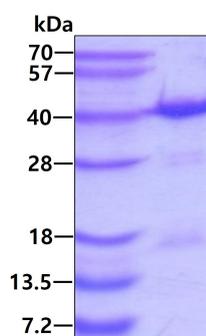
## General References

Imai K., et al. (1998) Gene. 222:287-295

Ikeda S., et al. (1998) J. Biol. Chem. 273:21585-21593

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.