

Recombinant human NTH1 protein

Catalog Number: ATGP1217

PRODUCT INFORMATION

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

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

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

<MGSSHHHHHH SGLVPRGSH> MCSPQESGMT ALSARMLTRS RSLGPGAGPR GCREEPGLR RREAAAEARK
SHSPVKRPRK AQRLRVAYEG SDSEKGEGAE PLKVPVWEPQ DWQQQLVNIR AMRNKKDAPV DHLGTEHCYD SSAPPKVRRY
QVLLSLMLSS QTKDQVTAGA MQRLRARGLT VDSILQTDDA TLGKLIYPVG FWRSKVYIK QTSAILQQHY GGDIPASVAE
LVALPGVGPK MAHLAMAVAW GTVSGIAVDT HVHRIANRLR WTKKATKSPE ETRAALEEWL PRELWHEING LLVGFGQQT
LPVHPRCHAC LNQALCPAAQ GL

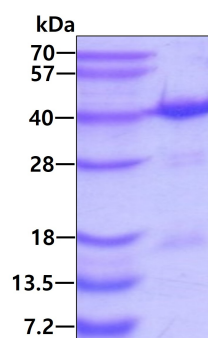
General References

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.