
Product Data Sheet

Product Name: NTHL1 Human
 Cat. No.: GP22018
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Endonuclease III-like protein 1; NTHL1; NTH1; OCTS3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MCSPQESGMT ALSARMLTRS RSLGPGAGPR GCREEPGLR RREAAAEARK SHSPVKRPRK AQRLRVAYEG SDSEKGEAE PLKVPVWEPQ DWQQQLVNIR AMRNKKDAPV DHLGTEHCYD SSAPPKVERRY QVLLSLMLSS QTKDQVTAGA MQRRLRARGLT VDSILQTDDA TLGKLIYPVG FWRSKVYIK QTSAILQQHY GGDIPASVAE LVALPGVGP MAHLAMAVAW GTVSGIAVDT HVHRIANRLR WTKKATKSPE ETRAALAEWL PRELWHEING LLVGFGQQTCLPVHPRCHAC LNQALCPAAQ GL.		
Formulation	NTHL1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 40% glycerol, 0.15M NaCl and 1mM DTT.		

Introduction

Nth endonuclease III-like protein 1 (NTHL1) is one of the enzymes which act on a large number of oxidatively damaged DNA sites. NTHL1 has an apurinic and/or apyrimidinic endonuclease activity and a DNA N-glycosylase activity. NTHL1 acts on a damaged strand, 5' from the damaged site and incises damaged DNA at cytosines, thymines and guanines.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

NTHL1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 332 amino acids (1-312 a.a.) and having a molecular mass of

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36.6kDa.NTHL1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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