

## NTHL1 Human

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

**Catalog #:** ENPS-179

For research use only.

**Synonyms:** Endonuclease III-like protein 1, NTHL1, NTH1, OCTS3.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MCSPQESGMT ALSARMLTRS  
RSLGPGAGPR GCREEPGLR RREAAAEARK SHSPVKRPRK AQRLRVAYEG SDSEKGEAE  
PLKVPVWEPQ DWQQQLVNIR AMRNKKDAPV DHLGTEHCYD SSAPPKVRRY QVLLSLMLSS  
QTKDQVTAGA MQRLRARGLT VDSILQTDDA TLGKLIYPVG FWRSKVKYIK QTSAILQQHY  
GGDIPASVAE LV

**Purity:** Greater than 80.0% as determined by SDS-PAGE.

**Formulation:**

NTHL1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 40% glycerol, 0.15M NaCl and 1mM DTT.

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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, thymine and guanines.

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