

## **Product datasheet for PH312655**

## OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## MTH1 (NUDT1) (NM\_198948) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** NUDT1 MS Standard C13 and N15-labeled recombinant protein (NP\_945186)

Species:HumanExpression Host:HEK293

**Expression cDNA Clone** 

RC212655

or AA Sequence: Predicted MW:

18 kDa

Protein Sequence: >RC212655 protein sequence

Red=Cloning site Green=Tags(s)

MGASRLYTLVLVLQPQRVLLGMKKRGFGAGRWNGFGGKVQEGETIEDGARRELQEESGLTVDALHKVGQIVFEFVGEPELMDMHVFCTDSIQGTPVESDEMRPCWFQLDQIPFKDMWPDDSYWFPLLLQKKKFHGYFKFQ

GQDTILDYTLREVDTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration:  $>0.05 \mu g/\mu L$  as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3

**Storage:** Store at -80°C. Avoid repeated freeze-thaw cycles.

**Stability:** Stable for 3 months from receipt of products under proper storage and handling conditions.

**RefSeq:** NP 945186

RefSeq Size: 743
RefSeq ORF: 468
Synonyms: MTH1
Locus ID: 4521

UniProt ID: <u>P36639</u>, <u>A0A024R819</u>





Cytogenetics:

7p22.3

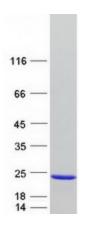
**Summary:** 

Misincorporation of oxidized nucleoside triphosphates into DNA/RNA during replication and transcription can cause mutations that may result in carcinogenesis or neurodegeneration. The protein encoded by this gene is an enzyme that hydrolyzes oxidized purine nucleoside triphosphates, such as 8-oxo-dGTP, 8-oxo-dATP, 2-hydroxy-dATP, and 2-hydroxy rATP, to monophosphates, thereby preventing misincorporation. The encoded protein is localized mainly in the cytoplasm, with some in the mitochondria, suggesting that it is involved in the sanitization of nucleotide pools both for nuclear and mitochondrial genomes. Several alternatively spliced transcript variants, some of which encode distinct isoforms, have been identified. Additional variants have been observed, but their full-length natures have not been determined. A rare single-nucleotide polymorphism that results in the production of an additional, longer isoform (p26) has been described. [provided by RefSeq, Dec 2018]

**Protein Families:** 

Stem cell - Pluripotency

## **Product images:**



Coomassie blue staining of purified NUDT1 protein (Cat# [TP312655]). The protein was produced from HEK293T cells transfected with NUDT1 cDNA clone (Cat# [RC212655]) using MegaTran 2.0 (Cat# [TT210002]).