



# SZABO SCANDIC

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Datasheet

### NUDT1 (Human) Recombinant Protein (P01)

**Catalog Number:** H00004521-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human NUDT1 full-length ORF (AAH14618, 1 a.a. - 179 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MSGISPQQMGPEGSWSGKNPGTMGASRLYLVLVL  
QPQRVLLGMKKRFGAGRWNGFGGKVQEGETIEDG  
ARRELQEEESGLTVDALHKVGQIVFEFVGEPELMDVHV  
FCTDSIQGTPVESDEMRPCWFQLDQIPFKDMWPPDS  
YWFPLLLQKKKFHGYFKFGQDITLDYTLREVDTV

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 45.43

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 4521

**Gene Symbol:** NUDT1

**Gene Alias:** MTH1

**Gene 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 single-nucleotide polymorphism that results in the production of an additional, longer isoform (p26) has been described. [provided by RefSeq]

**References:**

1. The nucleotide pool, a target for low-dose gamma-ray-induced oxidative stress. Sangsuwan T, Haghdoost S. Radiat Res. 2008 Dec;170(6):776-83.