

**NUDT1, 1-156aa, Human, His tag, E.coli**

**Cat.NO.: TP03222**

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3th Edition

**Synonyms:**7,8-dihydro-8-oxoguanine triphosphatase, MTH1, 8-oxo-dGTPase, Nudix motif 1

**Description:**NUDT1 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 of 8-oxo-dGTP into DNA thus preventing A:T to C:G transversions. It 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.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol,2mM DTT, 100mM NaCl

**Molecular Weight:**20.1kDa (176aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGASRLYTLVLVLPQRVLLGMKKRGFGAGRWNFGGKVEGETIEDGARREL  
QEESGLTVDALHKVGQIVFEFVGEPELMDVHVFCTDSIQGTPVESDEMPCWFQLDQIPFKDMWPDDSYWFPLLL  
QKKKFHGYFKFQGGDTILDYTLREVDTV

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.