

## Recombinant Human NUDT1, His-tagged

Cat. No. NUDT1-798H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human NUDT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 20.1kDa (176aa), confirmed by MALDI-TOF.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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. And this protein expressed at much higher levels in proliferating cells than in resting cells.
<b>Sequences Of Amino Acids</b>	MGSSHHHHHH SSGLVPRGSH MGASRLYTLV LVLQPQRVLL GMKKRGFGAG RWNGFGGKVQ EGETIEDGAR RELQEESGLT VDALHKVGQI VFEFVGEPEL MDVHVFC TDS IQGTPVESDE MRPCWFQLDQ IPFKDMWPDD SYWFPLLLQK KKFHGYFKFQ GQDTILDYTL REVDTV
<b>Purity</b>	> 95% by SDS – PAGE.
<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl.

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**Concentration** 1mg/ml (determined by BCA).

**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.

## GENE INFORMATION

**Gene Name** [NUDT1 nudix \(nucleoside diphosphate linked moiety X\)-type motif 1 \[ Homo sapiens \]](#)

**Synonyms** NUDT1; nudix (nucleoside diphosphate linked moiety X)-type motif 1; MTH1; 7,8-dihydro-8-oxoguanine triphosphatase; 8-oxo-dGTPase; nudix motif 1; OTTHUMP00000115537; OTTHUMP00000115540; mutT human homolog 1; 8-oxo-7,8-dihydroguanosine triphosphatase; 8-oxo-7,8-dihydrodeoxyguanosine triphosphatase; nucleoside diphosphate-linked moiety X motif 1; nucleoside diphosphate-linked moiety X-type motif 1; EC 3.1.6.-

**Gene ID** [4521](#)

**mRNA Refseq** [NM\\_002452](#)

**Protein Refseq** [NP\\_002443](#)

**MIM** [600312](#)

**UniProt ID** [P36639](#)

**Chromosome Location** 7p22

**Function** 8-oxo-7,8-dihydrodeoxyguanosine triphosphate pyrophosphatase activity; 8-oxo-7,8-dihydroguanosine triphosphate pyrophosphatase activity; GTPase activity; hydrolase

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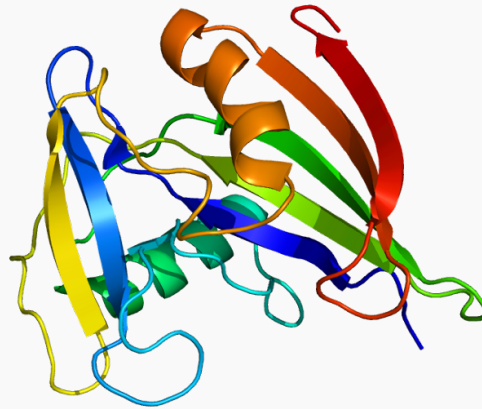
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activity; protein binding

PDB rendering based  
on 1iry.



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