

Recombinant Human NUDT1, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
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. And this protein expressed at much higher levels in proliferating cells than in resting cells.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MGASRLYTLV LVLQPQRVLL GMKKRGFGAG RWNGFGGKVQ EGETIEDGAR RELQEESGLT VDALHKVGQI VFEFVGEPEL MDVHVCTDS IQGTPVESDE MRPCWFQLDQ IPFKDMWPDD SYWFPLLLQK KKFHGYFKFQ GQDTILDYTL REVDTV
Purity	> 95% by SDS – PAGE.
Form	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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activity; protein binding

PDB rendering based
on 1iry.



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