

## Recombinant Human NUDT1 Protein (19-197 aa), His-tagged

Cat. No. NUDT1-2809H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human NUDT1 Protein (19-197 aa) is produced by Baculovirus expression system. This protein is fused with a 10xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	19-197 aa
<b>Description</b>	Antimutagenic. Acts as a sanitizing enzyme for oxidized nucleotide pools, thus suppressing cell dysfunction and death induced by oxidative stress. Hydrolyzes 8-oxo-dGTP, 8-oxo-dATP and 2-OH-dATP, thus preventing misincorporation of oxidized purine nucleoside triphosphates into DNA and subsequently preventing A:T to C:G and G:C to T:A transversions. Able to hydrolyze also the corresponding ribonucleotides, 2-OH-ATP, 8-oxo-GTP and 8-oxo-ATP. Does not play a role in U8 snoRNA decapping activity. Binds U8 snoRNA.
<b>Form</b>	Tris-based buffer, 50% glycerol
<b>Molecular Mass</b>	22.8 kDa
<b>AA Sequence</b>	MSGISPQQMGEPEGSWSGKNPGTMGASRLYTLVVLVLPQRVLLGMKKRFGAGR WNGFGGKVQEGETIEDGARRELQEEGLTVDALHKVGQIVFEFVGEPELMDVHVFC TDSIQGTPVESDEMPCWFQLDQIPFKDMWPDDSYWFPLLLQKKKFHGYFKFQGGQ

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<b>Purity</b>	> 85% as determined by SDS-PAGE.
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
<b>Concentration</b>	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

## GENE INFORMATION

<b>Gene Name</b>	NUDT1 nudix (nucleoside diphosphate linked moiety X)-type motif 1 [ Homo sapiens ]
<b>Official Symbol</b>	NUDT1
<b>Synonyms</b>	NUDT1; MTH1; 8 oxo 7; 8 oxo dGTPase; mutT human homolog 1;
<b>Gene ID</b>	4521
<b>mRNA Refseq</b>	NM_002452
<b>Protein Refseq</b>	NP_002443
<b>MIM</b>	600312

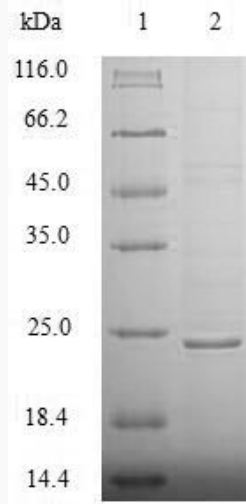
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UniProt ID

P36639



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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