

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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Insect Cells
ProteinLength	19-197 aa
Description	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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	22.8 kDa
AA Sequence	MSGISPQQMGEPEGSWSGKNPGTMGASRLYTLVLVLQPQRVLLGMKKRGFGAGR WNGFGGKVVQEGETIEDGARRELQEEGLTVDALHKVGQIVFEFVGEPELMDVHVFC TDSIQGTPVESDEMPCWFQLDQIPFKDMWPDDSYWFPLLLQKKKFHGYFKFQGGQ

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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Purity	> 85% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	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.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

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

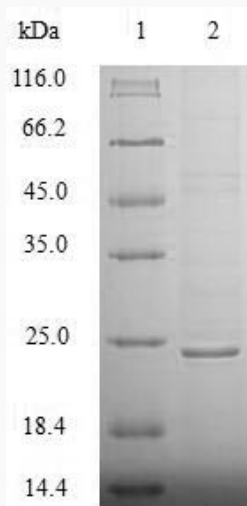
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UniProt ID

P36639



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

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