

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

Cat. No. NUDT1-2411H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human NUDT1 Protein (19-197 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Full Length of Mature Protein. |
| Species | Human |
| Source | Yeast |
| 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 | 22.3 kDa |
| AA Sequence | MSGISPQQMGEPEGSWSGKNPGTMGASRLYTLVVLVLPQRVLLGMKKRFGAGR WNGFGGKVQEGETIEDGARRELQEEGLTVDALHKVGGQIVFEFVGEPELMDVHVFC TDSIQGTPVESDEMPCWFQLDQIPFKDMWPDDSYWFPLLLQKKKFHGYFKFQGGQ |

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| | DTILDYTLREVDTV |
| 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

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|------------------------|--|
| 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; nudix motif 1; 8-oxo-dGTPase; |
| Gene ID | 4521 |
| mRNA Refseq | NM_002452 |
| Protein Refseq | NP_002443 |
| MIM | 600312 |

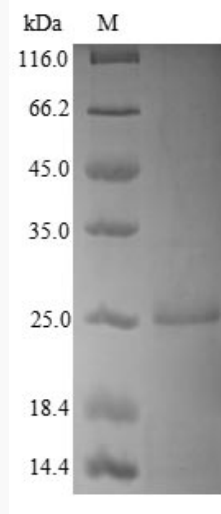
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UniProt ID

P36639



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

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