

Nudix Type Motif 1 Recombinant Protein | NUDT1 recombinant protein

Recombinant Human Nudix Type Motif 1

CATALOG # AAA38878	HOST E Coli
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PRODUCT SYNONYMS

Nudix Type Motif 1; Recombinant Human Nudix Type Motif 1; NUDT1 Human; Nudix Type Motif 1 Human Recombinant; 7; 8-dihydro-8-oxoguanine triphosphatase; 8-oxo-dGTPase; Nucleoside diphosphate-linked moiety X motif 1; Nudix motif 1; NUDT1; MTH1; NUDT1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The NUDT1 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 2mM DTT and 100mM NaCl. Sterile Filtered colorless solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMGA SRLYTLVLVL QPQRVLLGMK KRGFGAGRWN GFGGKVQEGE TIEDGARREL QEESGLTVDA LHKVGQIVFE FVGEPELMDV HVFCTDSIQG TPVESDEMRP CWFQLDQIPF KDMWPDDSYW FPLLLQKKKF HG YFKFQGQD TILDYTLREV DTV
Sequence Length	156
Preparation and Storage	NUDT1 should be stored desiccated below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for NUDT1 recombinant protein	Description: NUDT1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E Coli is a single, non-glycosylated, polypeptide chain containing 176 amino acids (1-156 a.a.) and having a molecular mass of 20.1kDa. The NUDT1 is purified by proprietary chromatographic techniques. Introduction: 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. NUDT1 is found mostly 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. Moreover, NUDT1 is expressed at much higher levels in proliferating cells than in resting cells. Misincorporation of oxidized nucleoside triphosphates into DNA/RNA during replication and transcription can cause mutations which may result in carcinogenesis or neurodegeneration.
Product Categories/Family for NUDT1 recombinant protein	Enzymes; Nudix Type Motif

NCBI AND UNIPROT INFORMATION

NCBI GI #	40288274
NCBI GeneID	4521
NCBI Accession #	NP_002443.3
NCBI GenBank Nucleotide #	NM_002452.3
UniProt Accession #	P36639 ; Q6LES7 ; Q6P0Y6 ; Q7Z7N6 ; Q8IV95 ; Q9UBM0 ; Q9UBM9 ; A4D205
Molecular Weight	17,952 Da

NCBI Official Full Name	7,8-dihydro-8-oxoguanine triphosphatase isoform p18
NCBI Official Synonym Full Names	nudix (nucleoside diphosphate linked moiety X)-type motif 1
NCBI Official Symbol	NUDT1
NCBI Official Synonym Symbols	MTH1
NCBI Protein Information	7,8-dihydro-8-oxoguanine triphosphatase; 2-hydroxy-dATP diphosphatase; 8-oxo-7,8-dihydrodeoxyguanosine triphosphatase; 8-oxo-7,8-dihydroguanosine triphosphatase; 8-oxo-dGTPase; mutT human homolog 1; nucleoside diphosphate-linked moiety X motif 1; nucleoside diphosphate-linked moiety X-type motif 1; nudix motif 1
UniProt Protein Name	7,8-dihydro-8-oxoguanine triphosphatase
UniProt Gene Name	NUDT1
UniProt Synonym Gene Names	MTH1; Nudix motif 1
UniProt Entry Name	8ODP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/nudt1-recombinant-protein-e-coli/38878>