# Recombinant Human NUDT2, His-tagged

**Cat. No.** NUDT2-957H **Lot. No.** (See product label)

## SPECIFICATION

| | |
|---|---|
| **Product Overview** | Recombinant NUDT2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | NUDT2 is a member of the MutT family of nucleotide pyrophosphatases, a subset of the larger NUDIX hydrolase family. This protein maintains homeostasis by using water to cleave the metabolite NUDT symmetrically back into its original ATP and AMP molecules. NUDT2 is also active towards other adenosine and diadenosine polyphosphates with four or more phosphate groups, but not towards diadenosine triphosphate. NUDT2 is involved in heat shock and metabolic stress by regulating intracellular dinucleoside polyphosphate concentrations. |
| **Form** | Liquid. In 20mM Tris buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl. |
| **Molecular Weight** | 19.0 kDa (167aa) confirmed by MALDI-TOF. |
| **Purity** | > 90% by SDS - PAGE. |
| **Concentration** | 1 mg/ml (determined by Bradford assay). |
| **Endotoxin Level** | < 1.0 EU per 1 μg of protein (determined by LAL method). |

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

| | |
|---|---|
| **Sequences Of Amino Acids** | MGSSHHHHHH SSGLVPRGSH MALRACGLII FRRCLIPKVD NNAIEFLLLQ ASDGIHHWTP PKGHVEPGED DLETALRETQ EEAGIEAGQL TIIEGFKREL NYVARNKPKT VIYWLAEVKD YDVEIRLSHE HQAYRWLGLE EACQLAQFKE MKAALQEGHQ FLCSIEA. |
| **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. |
| **Pathways** | Pyrimidine metabolism; Purine metabolism |

## GENE INFORMATION

| | |
|---|---|
| **Gene Name** | NUDT2 nudix (nucleoside diphosphate linked moiety X)-type motif 2 [ Homo sapiens ] |
| **Synonyms** | nudix (nucleoside diphosphate linked moiety X)-type motif 2; APAH1; MGC10404; NUDT2; bis(5''-nucleosyl)- tetraphosphatase [asymmetrical]; Ap4A ase; nudix motif 2; Ap4A hydrolase 1; OTTHUMP00000021256; OTTHUMP0- 0000021259; diadenosine tetraphosph atase; nucleoside diphosphate-linked moiety X motif 2; bis(5''-nucleosyl)-tetraphosphatase (asymmetrical); diade nosine 5'',5''-P1,P4-tetraphosphate pyro phosphohydrolase; diadenosine 5'',5''''- P1,P4-tetraphosphate asymmetrical hydrolase; Diadenosine tetraphosphat ase; Diadenosine 5'',5''''-P1,P4-tetraphos phate asymmetrical hydrolase; Nucleo side diphosphate-linked moiety X motif 2; EC 3.6.1.17 |
| **Gene ID** | 318 |
| **mRNA Refseq** | NM_147173 |
| **Protein Refseq** | NP_671702 |
| **MIM** | 602852 |

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

| | |
|---|---|
| **UniProt ID** | P50583 |
| **Chromosome Location** | 9p13 |
| **Function** | GTP binding; bis(5''-nucleosyl)- tetraphosphatase (asymmetrical) activity; bis(5''-nucleosyl)-t etraphosp hatase (symmetrical) activity; nucleotide binding; hydrolase activity |

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