

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).

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Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MALRACGLII FRRCLIPKVD NNAIEFLLLQ ASDGIHHWTP PKGHVEPGED DLETALRETQ EEAGIEAGQL TIEGFKREL NYVARNKPKT VIYWLAEVKD YDVEIRLSHE HQAYRWLGL 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 tetraphosphatase; nucleoside diphosphate-linked moiety X motif 2; bis(5"-nucleosyl)-tetraphosphatase (asymmetrical); diadenosine 5",5"-P1,P4-tetraphosphate pyrophosphohydrolase; diadenosine 5",5""- P1,P4-tetraphosphate asymmetrical hydrolase; Diadenosine tetraphosphatase; Diadenosine 5",5""-P1,P4-tetraphosphate asymmetrical hydrolase; Nucleoside diphosphate-linked moiety X motif 2; EC 3.6.1.17
Gene ID	318
mRNA Refseq	NM_147173
Protein Refseq	NP_671702
MIM	602852

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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

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