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## Product Data Sheet

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Product Name: NUDT2 Human  
 Cat. No.: GP22025  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	nudix (nucleoside diphosphate linked moiety X)-type motif 2; APAH1; Diadenosine 5';5'''-P1;P4-tetraphosphate asymmetrical hydrolase; Diadenosine tetraphosphatase; Nucleoside diphosphate-linked moiety X motif 2; Ap4Aase; EC 3.6.1.17; MGC10404; Ap4A hydrolase 1; bis(5'-nucleosyl)-tetraphosphatase (asymmetrical); diadenosine 5';5''-P1;P4-tetraphosphate pyrophosphohydrolase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MALRACGLII FRRCLIPKVD NNAIEFLLLQ ASDGIHHWTP PKGHVEPGED DLETALRETQ EEAGIEAGQL TIEGFKREL NYVARNKPKT VIYWLAEVKD YDVEIRLSHE HQAYRWLGL EACQLAQFKE MKAALQEGHQ FLCSIEA		
Formulation	The NUDT2 protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 1mM DTT, 0.1M NaCl and 10% glycerol.		

### Introduction

NUDT2 belongs to the MutT family of nucleotide pyrophosphatases, a subset of the larger NUDIX hydrolase family. NUDT2 conserves homeostasis by using water to cleave the metabolite NUDT symmetrically back into its original ATP and AMP molecules. In addition, NUDT2 is active towards other adenosine and diadenosine polyphosphates with four or more phosphate groups, however, not towards diadenosine triphosphate. NUDT2 has a role in heat shock and metabolic stress by regulating intracellular dinucleoside polyphosphate concentrations.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

NUDT2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 167 amino acids (1-147a.a.) and having a molecular mass of 19.0kDa. NUDT2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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