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## Product Data Sheet

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Product Name: NUDT5 Human  
 Cat. No.: GP22028  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	hYSAH1; YSA1; YSA1H; ADP-sugar pyrophosphatase; EC=3.6.1.-; EC=3.6.1.13; Nucleoside diphosphate-linked moiety X motif 5; Nudix motif 5; HSPC115.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MESQEPTSS QNGKQYIISE ELISEGKWVK LEKTTYMDPT GKTRTWESVK RTTRKEQTAD GVAVIPVLQR TLHYECIVLV KQFRPPMGY CIEFPAGLID DGETPEAAAL RELEEETGYK GDIAECSPAV CMDPGLSNCT IHIVTVTING DDAENARPKP KPGDGEFVEV ISLPKNDLLQ RLDALVAEEH LTVDARVYSY ALALKHANAK PFEVPFLKF.		
Formulation	NUDT5 Human 1mg/ml solution containing 20mM Tris-HCl pH-8, 1mM DTT, 0.1M NaCl & 10% glycerol.		

### Introduction

NUDT5 is part of the nudix hydrolase family which remove toxic nucleotide derivatives from the cell. NUDT5 hydrolyzes ADP-ribose and ADP-mannose in the presence of magnesium, and in addition hydrolyzes nucleotide sugars with decreasing activity such as ADP-glucose and diadenosine diphosphate. As a nudix hydrolase, NUDT5 holds a central nudix motif and functions to eliminate toxic nucleotide metabolites from the cell while maintaining the levels of signaling nucleotides. NUDT5 is broadly expressed but is most abundant in liver as a homodimer.

### 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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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

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NUDT5 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 239 amino acids (1-219 a.a.) and having a molecular mass of 26.5 kDa. The NUDT5 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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