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## Product Data Sheet

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Product Name: NUDT14 Human  
 Cat. No.: GP22022  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	UGPP; UGPPase; Uridine diphosphate glucose pyrophosphatase; UDPG pyrophosphatase; Nucleoside diphosphate-linked moiety X motif 14; Nudix motif 14; NUDT14.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMERIEGA SVGRCAASPY LRPLTLHYRQ NGAQKSWDFM KTHDSVTVLL FNSSRRSLVL VKQFRPAVYA GEVERRFPGS LAAVDQDGPR ELQPALPGSA GVTVELCAGL VDQPGLSLEE VACKEAWEEC GYHLAPSDLR RVATYWSGVG LTGSRQTMFY TEVTDQRSG PGGGLVEEGE LIEVVHLPLE GAQAFADDPD IPKTLGVIFG VSWFLSQVAP NLDLQ.		
Formulation	The NUDT14 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 1mM DTT.		

### Introduction

Uridine diphosphate glucose pyrophosphatase (NUDT14), is a part of the nudix hydrolase family. NUDT14 is a cytoplasmic protein which contains one nudix hydrolase domain and acts as the sugar donor in numerous glycosylation reactions, including those involved in the production of glycogen. NUDT14 hydrolyzes ADP-ribose into ribose 5-phosphate and AMP, and UDP-glucose to glucose 1-phosphate and UMP. NUDT14 is a homodimer which binds magnesium as a cofactor and is encoded by a gene located on human chromosome 14.

### 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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NUDT14 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 245 amino acids (1-222) and having a molecular mass of 26.5kDa. NUDT14 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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