

# Recombinant human NUDT14/UGPP protein

Catalog Number: ATGP1965

## PRODUCT INFORMATION

---

### Expression system

E.coli

### Domain

1-222aa

### UniProt No.

O95848

### NCBI Accession No.

NP\_803877.2

### Alternative Names

Nudix hydrolase 14, Uridine diphosphate glucose pyrophosphatase NUDT14, UDPG pyrophosphatase, UGPPase, Nucleoside diphosphate-linked moiety X motif 14, Nudix motif 14

## PRODUCT SPECIFICATION

---

### Molecular Weight

26.5 kDa (245aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

---

### Description

uridine diphosphate glucose pyrophosphatase, also known as NuDT14, is a 222 amino acid cytoplasmic protein that contains one nudix hydrolase domain and belongs to the nudix hydrolase family. NuDT14 hydrolyzes ADP-ribose into ribose 5-phosphate and AMP, and uDP-glucose to glucose 1-phosphate and uMP. Existing as a homodimer, NuDT14 binds magnesium as a cofactor and is encoded by a gene located on human chromosome 14. Recombinant human NuDT14 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by

# Recombinant human NUDT14/UGPP protein

Catalog Number: ATGP1965

using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MERIEGA SVGRCAASPY LRPLTLHYRQ NGAQKSWDFM KTHDSVTVLL  
FNSSRRSLVL VKQFRPAVYA GEVERRFPGS LAAVDQDGPR ELQPALPGSA GVTVELCAGL VDQPGLSLEE VACKEAWEEC  
GYHLAPSDLR RVATYWSGVG LTGSRQTMFY TEVTDAQRSG PGGGLVEEGE LIEVVHLPLE GAQAFADDPD IPKTLGVIFG  
VSWFLSQVAP NLDLQ

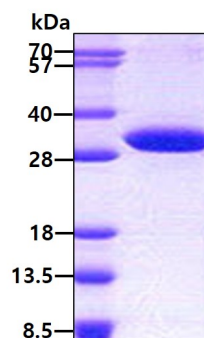
## General References

Yagi T., et al. (2003) *Biochem J.* 370:409-415.

Heyen C A., et al. (2009) *Biochem Biophys Res Commun.* 390: 1414-1418.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain