

# Recombinant human NUDT9 protein

Catalog Number: ATGP1062

## PRODUCT INFORMATION

### Expression system

E.coli

### Domain

47-350aa

### UniProt No.

Q9BW91

### NCBI Accession No.

NP\_076952

### Alternative Names

Nudix hydrolase 9, ADP-ribose pyrophosphatase mitochondrial, ADP-ribose diphosphatase, Adenosine diphosphoribose pyrophosphatase, ADPR-Ppase, Nucleoside diphosphate-linked moiety X motif 9, Nudix motif 9, NUDT10

## PRODUCT SPECIFICATION

### Molecular Weight

36.5 kDa (325aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.

### 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

NuDT9 belongs to a superfamily of Nudix hydrolases. It is known to function as a highly specific adenosine diphosphate ribose pyrophosphatase that hydrolyzes ADP ribose to AMP and ribose 5'-phosphate. It has been suggested that NuDT9 may be involved in the regulation of the menstrual cycle and may be related to the proliferation of glandular cells in the human endometrium. Recombinant human NuDT9 protein, fused to His-tag

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at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>NTNVMMSGN GSKENSHNKA RTSPYPGSKV ERSQVPNEKV GWLVEWQDYK  
PVEYTAVSVL AGPRWADPQI SESNFSPKFN EKDGHVERKS KNGLYEIENG RPRNPAGRTG LVGRGLLGRW GPNHAADPII  
TRWKRDSGN KIMHPVSGKH ILQFVAIKRK DCGEWAIPGG MVDPG EKISA TLKREFGEEA LNSLQKTS AE KREIEEKLHK  
LFSQDHLVIY KGYVDDPRNT DNAWMETEAV NYHDETGEIM DNLMLEAGDD AGKVKWVDIN DKLKLYASHS QFIKLVAEKR  
DAHWS ESEA DCHAL

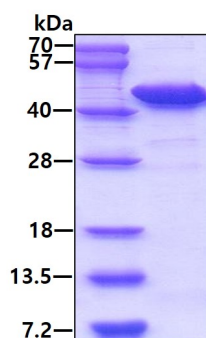
## General References

Perraud AL., et al. (2001) Nature. 411(6837):595-9.

Perraud AL., et al. (2003) J Biol Chem. 278(3):1794-801.

## DATA

### SDS-PAGE



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