

# Recombinant human NUDT3/DIPP1 protein

Catalog Number: ATGP0922

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-172aa

### UniProt No.

O95989

### NCBI Accession No.

NP\_006694

### Alternative Names

Nudix hydrolase 3, Diadenosine 5',5'''-P1,P6-hexaphosphate hydrolase 1, Diphosphoinositol polyphosphate phosphohydrolase 1

## PRODUCT SPECIFICATION

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### Molecular Weight

21.6 kDa (192aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 20% 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

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### Description

NuDT3, also known as DIPP, DIPP1 (diphosphoinositol polyphosphate phosphohydrolase 1), is a 172 amino acid cytoplasmic protein belonging to the nudix hydrolase family and DIPP subfamily. NuDT3 acts as a negative regulator of the ERK 1/2 pathway and hydrolyzes 5-phosphoribose 1-diphosphate. NuDT3 exists as a monomer and binds magnesium as a cofactor. Also NuDT3 is widely expressed but found at highest levels in liver, pancreas, brain and heart. Recombinant human NuDT3 protein, fused to His-tag at N-terminus, was expressed in

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E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHHH SSSLVPRGSH MMKLKSNQTR TYDGDGYKRR AACLCFRSES EEEVLLVSSS RHPDRWIVPG GGMEPEEEPS  
VAAVREVC EE AGVKGTLGRL VGIFENQERK HRTYVYVLIV TEVLEDWEDS VNIGRKREWF KIEDAIKVLQ YHKPVQASYF  
ETLRQGYSAN NGTPVVATTY SVSAQSSMSG IR

## General References

Chu C., et al. (2004) Cell Signal. 16(9):1045-59.

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)