

# Recombinant human NUDT10 protein

Catalog Number: ATGP1029

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-164aa

**UniProt No.**

Q8NFP7

**NCBI Accession No.**

NP\_694853

**Alternative Names**

Nudix hydrolase 10, Diphosphoinositol polyphosphate phosphohydrolase 3-alpha, hDIPP3alpha, Nucleoside diphosphate-linked moiety X motif 10, Nudix motif 10, hAps2, APS2, DIPP3A

## PRODUCT SPECIFICATION

**Molecular Weight**

19.5 kDa (172aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

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

**Purity**

&gt; 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**

NuDT10, also known as APS2 or DIPP3alpha, is a member of the Nudix hydrolase family of pyrophosphatases. Nudix hydrolases contain a characteristic Nudix domain and are responsible for catalyzing the hydrolysis of nucleoside diphosphate derivatives. It functions as a manganese-dependent polyphosphate phosphohydrolase with an optimum pH of 8.5. This protein specifically metabolizes diadenosine-polyphosphates and, to a lesser extent, diphosphoinositol polyphosphates. Recombinant human NuDT10 protein, fused to His-tag at C-terminus,

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was expressed in E. coli and purified by using conventional chromatography.

## Amino acid Sequence

MKCKPNQTRT YDPEGFKKRA ACLCFRSERE DEVLLVSSSR YPDRWIVPGG GMEPEEEPPGG AAVREYEEA GVKGKLGRLL  
GVFEQNQDPK HRTYVYVLTV TELLEDWEDS VSIGRKREWF KVEDAIKVLQ CHKPVHAEYL EKLKLGGSPT NGNSMAPSSP  
DSDP<LEHHHH HH>

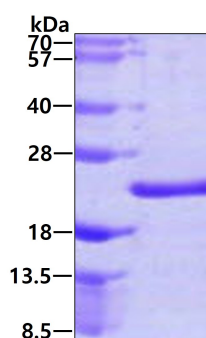
## General References

Hidaka K. et al. (2002) J. Biol. Chem. 277: 32730-32738

Hua L.V. et al. (2003) Biochem. J. 373: 81-89

## DATA

### SDS-PAGE



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