

Recombinant human NUDT2/APAH1 protein

Catalog Number: ATGP0890

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-147aa

UniProt No.

P50583

NCBI Accession No.

NP_671702

Alternative Names

Nudix hydrolase 2, Bis(5'-nucleosyl)-tetrphosphatase asymmetrical, nudix (nucleoside diphosphate linked moiety X)-type motif 2, Ap4A hydrolase 1, Ap4Aase, diadenosine tetrphosphatase, diadenosine 5',5''-P1,P4-tetrphosphate pyrophosphohydrolase, APAH1

PRODUCT SPECIFICATION

Molecular Weight

19 kDa (167aa) confirmed by MALDI-TOF

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

> 90% 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

NuDT2 is a member of the MutT family of nucleotide pyrophosphatases, a subset of the larger NuDIX hydrolase family. This protein maintains homeostasis by using water to cleave the metabolite NuDT symmetrically back into its original ATP and AMP molecules. NuDT2 is also active towards other adenosine and diadenosine polyphosphates with four or more phosphate groups, but not towards diadenosine triphosphate. NuDT2 is

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involved in heat shock and metabolic stress by regulating intracellular dinucleoside polyphosphate concentrations. Recombinant NuDT2 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

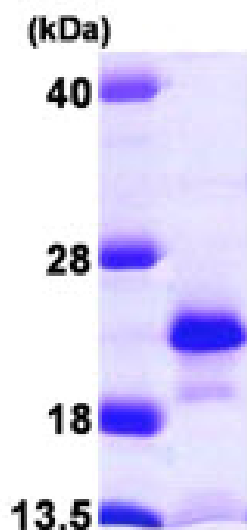
MGSSHHHHHH SGLVPRGSH MALRACGLII FRRCLIPKVD NNAIEFLLLQ ASDGIHHWTP PKGHVEPGED DLETALRETQ
EEAGIEAGQL TIEGFKREL NYVARNKPKT VIYWLAEVKD YDVEIRLSHE HQAYRWLGL EACQLAQFKE MKAALQEGHQ
FLCSIEA

General References

Swarbrick JD., et al. (2005) *J Biol Chem.* 280(9):8471-81.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)