

Recombinant human NUDT16 protein

Catalog Number: ATGP0868

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-195aa

UniProt No.

Q96DE0

NCBI Accession No.

NP_689608

Alternative Names

Nudix type motif 16, Nudix hydrolase 16, U8 snoRNA-decapping enzyme, IDP phosphatase, IDPase, Nosine diphosphate phosphatase, Nucleoside diphosphate-linked moiety X motif 16, U8 snoRNA-binding protein H29K, m7GpppN-mRNA hydrolase

PRODUCT SPECIFICATION

Molecular Weight

23.4 kDa (215aa) 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, 100mM 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

NuDT16 is nuclear nucleoside diphosphatase proteins localized within foci in the nucleolus and nucleoplasm. This is a RNA-decapping enzyme that binds specifically to u8 snoRNA. It can remove m7G and m227G caps from RNAs, rendering them substrates for 5'-3' exonucleases for degradation in vivo. Recombinant human NuDT16 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

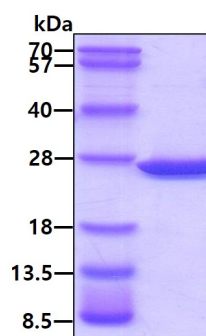
<MGSSHHHHHH SSGLVPRGSH> MAGARRLELG EALALGSGWR HACHALLYAP DPGMLFGRIP LRYAILMQMR
FDGRLGFPGG FVDTQDRSLE DGLNRELREE LGAAAAFRV ERTDYRSSHV GSGPRVVAHF YAKRLTLEEL LAVEAGATRA
KDHGLEVLGL VRVPLYTLRD GVGGLPTFLE NSFIGSAREQ LLEALQDLGL LQSGSISGLK IPAHH

General References

Peculis B.A., et al. (2007) J. Biol. Chem. 282:24792-24805.
Ghosh T., et al. (2004) Mol. Cell 13:817-828.

DATA

SDS-PAGE



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