

Recombinant human NUDT3/DIPP1 protein

Catalog Number: ATGP0922

PRODUCT INFORMATION

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

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

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

MGSSHHHHHH SSGLVPRGSH MMKLKSNQTR TYDGDGYKKR AACLCFRSES EEEVLLVSSS RHPDRWIVPG GGMEPEEEPS
VAAVREVCEE AGVKGTGLGRL VGIFENQERK HRTYVYVLIV TEVLEDWEDS VNIGRKREWF KIEDAIKVLQ YHKPVQASYF
ETLRQGYSAN NGTPVVATTY SVSAQSSMSG IR

General References

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

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)