Recombinant human NUDT9 protein

Catalog Number: ATGP1062

PRODUCT INFORMATION

Expression system
E.coli

Domain
47-350aa

UniProt No.
Q9BW91

NCBI Accession No.
NP_076952

Alternative Names
Nudix hydrolase 9, ADP-ribose pyrophosphatase mitochondrial, ADP-ribose diphosphatase, Adenosine diphosphoribose pyrophosphatase, ADPR-Ppase, Nucleoside diphosphate-linked moiety X motif 9, Nudix motif 9, NUDT10

PRODUCT SPECIFICATION

Molecular Weight
36.5 kDa (325aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

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
> 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
NuDT9 belongs to a superfamily of Nudix hydrolases. It is known to function as a highly specific adenosine diphosphate ribose pyrophosphatase that hydrolyzes ADP ribose to AMP and ribose 5'-phosphate. It has been suggested that NuDT9 may be involved in the regulation of the menstrual cycle and may be related to the proliferation of glandular cells in the human endometrium. Recombinant human NuDT9 protein, fused to His-tag

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at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

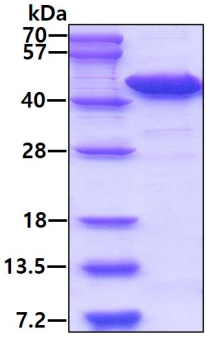
<MGSSHHHHHH SSGLVPRGSH M>NTNVMSGSN GSKENSHNKA RTSPYPGSKV ERSQVPNEKV GWLVEWQDYK PVEYTAVSVL AGPRWADPQI SESNFSPKFN EKDGHVERKS KNGLYEIENG RPRNPAGRTG LVGRGLLGRW GPNHAADPII TRWKRDSSGN KIMHPVSGKH ILQFVAIKRK DCGEWAIPGG MVDPGEKISA TLKREFGEEA LNSLQKTSAE KREIEEKLHK LFSQDHLVIY KGYVDDPRNT DNAWMETEAV NYHDETGEIM DNLMLEAGDD AGKVKWVDIN DKLKLYASHS QFIKLVAEKR DAHWSEDSEA DCHAL

General References

Perraud AL., et al. (2001) Nature. 411(6837):595-9.
Perraud AL., et al. (2003) J Biol Chem. 278(3):1794-801.

DATA

SDS-PAGE



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