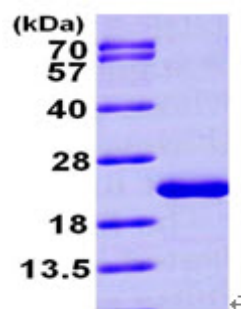


AR09680PU-N

Human NUDT1 (1-156, His-tag) - Purified

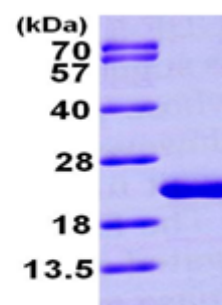
Alternate names:	7, 8-dihydro-8-oxoguanine triphosphatase, 8-oxo-dGTPase, MTH1, Nucleoside diphosphate-linked moiety X motif 1
Quantity:	0.1 mg
Concentration:	1.0 mg/ml (determined by Bradford assay)
Background:	NUDT1 is an enzyme that hydrolyzes oxidized purine nucleoside triphosphates, such as 8-oxo-dGTP, 8-oxo-dATP, 2-hydroxy-dATP, and 2-hydroxy rATP, to monophosphates, thereby preventing misincorporation of 8-oxo-dGTP into DNA thus preventing A:T to C:G transversions. It is localized mainly in the cytoplasm, with some in the mitochondria, suggesting that it is involved in the sanitization of nucleotide pools both for nuclear and mitochondrial genomes. And this protein expressed at much higher levels in proliferating cells than in resting cells.
Uniprot ID:	P36639
NCBI:	NP_002443
GeneID:	4521
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >95% Buffer System: 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl
Description:	Recombinant human NUDT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MGSSHHHHHH SSSLVPRGSH MGASRLYTLV LVLQPQRVLL GMKKRGFGAG RWNGFGGKVQ EGETIEDGAR RELQEESGLT VDALKVGGI VFEFVGEPEL MDVHVCTDS IQGTPVESDE MRPCWFQLDQ IPFKDMWPDD SYWFPLLLQK KKFHGYFKFQ GQDTILDYTL REVDTV Molecular weight: 20.1 kDa (176aa), confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Satoh J., et al (2000) Eur J Neurol. 7(6):673-7.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human NUDT1, 1-156aa, His-tagged



15% SDS-PAGE (3ug)