ABGENEX Pvt. Ltd.,

## 32-2619: NUDT1 Recombinant Protein

Alternative Name : $\begin{gathered}7,8-\text { dihydro-8-oxoguanine triphosphatase,8-oxo-dGTPase,Nucleoside diphosphate-linked moiety } \mathrm{X} \text { motif } \\ 1, \text { Nudix motif } 1, N U D T 1, M T H 1\end{gathered}$ 1,Nudix motif 1,NUDT1,MTH1.

## Description

Source : Escherichia Coli. NUDT1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 176 amino acids (1-156 a.a.) and having a molecular mass of 20.1kDa. The NUDT1 is purified by proprietary chromatographic techniques. 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 $\mathrm{C}: \mathrm{G}$ transversions. NUDT1 is found mostly 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. Moreover, NUDT1 is expressed at much higher levels in proliferating cells than in resting cells. Misincorporation of oxidized nucleoside triphosphates into DNA/RNA during replication and transcription can cause mutations which may result in carcinogenesis or neurodegeneration.

## Product Info

## Amount :

## Purification :

## Content :

## Storage condition :

Amino Acid :
$20 \mu \mathrm{~g}$
Greater than $95.0 \%$ as determined by SDS-PAGE.
The NUDT1 solution ( $1 \mathrm{mg} / \mathrm{ml}$ ) contains 20 mM Tris-HCl buffer ( pH 8.0 ), $10 \%$ glycerol, 2 mM DTT and 100 mM NaCl .
NUDT1 should be stored desiccated below $-18^{\circ} \mathrm{C}$. For long term storage it is recommended to add a carrier protein ( $0.1 \%$ HSA or BSA). Please prevent freeze-thaw cycles.
MGSSHHHHHH SSGLVPRGSH MGASRLYTLV LVLQPQRVLL GMKKRGFGAG RWNGFGGKVQ EGETIEDGAR RELQEESGLT VDALHKVGQI VFEFVGEPEL MDVHVFCTDS IQGTPVESDE MRPCWFQLDQ IPFKDMWPDD SYWFPLLLQK KKFHGYFKFQ GQDTILDYTL REVDTV.


