

# Recombinant Escherichia coli 8-oxo-dGTP diphosphatase

Catalog No: #AP72963

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Package Size: #AP72963-1 20ug #AP72963-2 100ug #AP72963-3 500ug

## Description

Product Name	Recombinant Escherichia coli 8-oxo-dGTP diphosphatase
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-129aaSequence Info:Full Length
Other Names	7,8-dihydro-8-oxoguanine-triphosphatase;Mutator protein MutTdGTP pyrophosphohydrolase
Accession No.	P08337
Uniprot	P08337
GeneID	944824;
Calculated MW	16.9 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MKKLQIAVGIIRNENNEIFITRRAADAHMANKLEFPGGKIEMGETPEQAVVRELQEEVGITPQHFLFEKLEYEF PDRHITLWFWLVERWEGEPWGKEGQPGEWMSLVGLNADDFPPANEPVIAKLKRL
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Involved in the GO syst responsible for roving an oxidatively damaged form of guanine (7,8-dihydro-8-oxoguanine) from DNA and the nucleotide pool. 8-oxo-dGTP is inserted opposite dA and dC residues of tplate DNA with almost equal efficiency thus leading to A.T to G.C transversions. MutT specifically degrades 8-oxo-dGTP to the monophosphate.

## References

Characterization of the mutT nucleoside triphosphatase of Escherichia coli.Bhatnagar S.K., Bullions L.C., Bessman M.J.J. Biol. Chem. 266:9050-9054(1991)Research Topic:Others

Note: This product is for in vitro research use only