

Recombinant Escherichia coli 8-oxo-dGTP diphosphatase(mutT)

Catalog No: #AP71124

Package Size: #AP71124-1 20ug #AP71124-2 100ug #AP71124-3 1mg

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Description

Product Name	Recombinant Escherichia coli 8-oxo-dGTP diphosphatase(mutT)
Host Species	E.coli
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 MutT dGTP pyrophosphohydrolase
Accession No.	P08337
Calculated MW	30.9 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MKKLQIAVGIIRNENNEIFITRRAADAHMANKLEFPGGKIEMGETPEQAVVRELQEEVGITPQHFSLEFKEYEF 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 system responsible for removing 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 template DNA with almost equal efficiency thus leading to A.T to G.C transversions. MutT specifically degrades 8-oxo-dGTP to the monophosphate.

References

"Highly accurate genome sequences of Escherichia coli K-12 strains MG1655 and W3110."Hayashi K., Morooka N., Yamamoto Y., Fujita K., Isono K., Choi S., Ohtsubo E., Baba T., Wanner B.L., Mori H., Horiuchi T.Mol. Syst. Biol. 2:E1-E5(2006) Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.