

Recombinant Mouse TDG Protein, His-tagged

Cat. No. TDG-338M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length Recombinant Mouse TDG (Thymine-DNA Glycosylase) Protein is produced in SF9 Insect Cells and is fused with a His tag at the N-terminal.
Species	Mouse
Source	Insect Cells
Description	TDG (UniProt/Swiss-Prot entry Q13569) belongs to the TDG/mug DNA glycosylase family. It removes thymine moieties from G/T mismatches by hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of DNA and the mispaired thymine. It is also able to remove thymine from C/T and T/T mispairings, although with lower activity. Furrther, TDG plays a key role in active DNA demethylation as it binds to 5-formylcytosine (5fC) and 5-carboxylcytosine (5caC), but not 5-hydroxymethylcytosine (5hmC), and mediates their excision through base-excision repair (BER) to install an unmethylated cytosine.
Form	20mM Tris-Cl pH 7.6, 1 mM EDTA, 0.15 M NaCl, 10% glycerol, 0.5 mM PMSF and 1 mM DTT.
Purity	Purified using FPLC, >95% purity as determined by SDS-PAGE.
Notes	This product is for research use only. Not for use in diagnostic or therapeutic procedures.
Stability	Guaranteed stable for 2 years from date of receipt when stored properly.

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Storage	Store at -80 centigrade.
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Concentration	0.5 g/μ
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Full Length	Full L.
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GENE INFORMATION

Synonyms	HTDG
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TDG-338M, 2	SDS page of the TDG recombinant protein. The position of the protein of interest is indicated on the right; the marker (in kDa) is shown on the left.
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