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## Product Data Sheet

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Product Name: OGG1 Mouse  
 Cat. No.: GP22033  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HMMH; HOGG1; MUTM; OGH1; AP lyase; OGG1; 8-Oxoguanine DNA Glycosylase; OGG1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMLFRSWL PSSMRHRTL SPPALWASIP CPRSELRLDL VLASGQSFRW KEQSPAHWSG VLADQVWTLT QTEDQLYCTV YRGDDSQVSR PTLEELETLH KYFQLDVSLA QLYSHWASVD SHFQRVAQKF QGVRLLRQDP TECLFSFICS SNNNIARITG MVERLCQAFG PRLIQLDDVT YHGFPNLHAL AGPEAETHLR KLGLGYRARY VRASAKAILE EQGGPAWLQQ LRVAPYEEAH KALCTLPGVG AKVADCICLM ALDKPQAVPV DVHVVQIAHR DYGWHPKTSQ AKGPSPLANK ELGNFFRNLW GPYAGWAQAV LFSADLRQPS LSREPPAKRK KGSKRPEG.		
Formulation	OGG1 protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH7.4) and 30% glycerol.		

### Introduction

OGG1 is a DNA glycosylase enzyme which takes part in base excision repair. OGG1 protein is the main enzyme accountable for the excision of 7,8-dihydro-8-oxoguanine (8-oxoG), a mutagenic base byproduct which arises as a result of exposure to reactive oxygen species (ROS). OGG1 shows beta lyase activity that nicks DNA 3' to the lesion.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

OGG1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

**Caution: Product has not been fully validated for medical applications. For research use only.**

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chain containing 368 amino acids (1-345 a.a) and having a molecular mass of 41.3kDa. OGG1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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