

# Recombinant human OGG1 protein

Catalog Number: ATGP0668

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-345aa

### UniProt No.

O15527

### NCBI Accession No.

AAH00657.1

### Alternative Names

8-oxoguanine DNA glycosylase, N-glycosylase/DNA lyase, DNA-apurinic or apyrimidinic site lyase, AP lyase, HMMH, HOGG1, OGH1, MUTM

## PRODUCT SPECIFICATION

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### Molecular Weight

41.2 kDa (368aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 40% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

OGG1, also known as 8-oxoguanine glycosylase, is a DNA glycosylase enzyme involved in base excision repair. This protein is the primary enzyme responsible for the excision of 7, 8-dihydro-8-oxoguanine (8-oxoG), a mutagenic base byproduct which occurs as a result of exposure to reactive oxygen species (ROS). It has a beta lyase activity that nicks DNA 3' to the lesion. Recombinant human OGG1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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## Amino acid Sequence

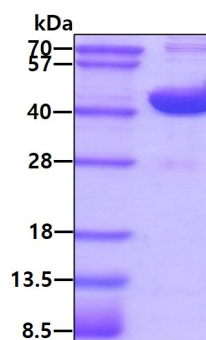
<MGSSHHHHH SSGLVPRGSH TGS>MPARALL PRRMGHRTLA STPALWASIP CPRSELRLDL VLPSGQSFRW  
REQSPAHWGS VLADQVWTLT QTEQLHCTV YRGDKSQASR PTPDELEAVR KYFQLDVTLA QLYHHWGSVD  
SHFQEVAQKF QGVRLLRQDP IECLFSFICS SNNIARITG MVERLCQAFG PRLIQLDDVT YHGFPSLQAL AGPEVEAHLR  
KLGLGYRARY VSASARAILE EQGGLAWLQQ LRESSYEEAH KALCILPGVG TKVADCICLM ALDKPQAVPV  
DVHMWHIAQRDYSWHPTTSQ AKGPSPQTNK ELGNFFRSLW GPYAGWAQAV LFSADLRQCR HAQEPPAKRR KGSKGPEG

## General References

Seeberg E., et al. (2002). Nucleic Acids Res. 30(11):2349-57.  
Hodges Nj., et al (2010). DNA Repair (Amst). 9(2):144-52.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.