

## Human OGG1, His Tag, E. coli

<b>Catalog Number</b>	LDG169PHE
<b>Package</b>	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Human

#### Affinity Tag

His Tag (C-term)

#### Purity

>98% as determined by SDS-PAGE analysis.

#### Endotoxin Level

<0.1 EU per 1 µg of the protein by the LAL method.

#### Expression System

Escherichia coli

#### Storage Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

#### Molecular weight

The protein has a calculated MW of 39.61 kDa. The protein migrates as 40 kDa under reducing condition (SDS-PAGE analysis).

#### Form

Lyophilized

### Background

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### Background

8-oxoguanine DNA glycosylase-1 (OGG1) is a major DNA glycosylase that plays a critical role in n base-excision repair (BER) of oxidative DNA damage to nuclear and mitochondrial DNA (mtDNA) to remove 7,8-dihydro-8-oxo-2'-deoxyguanosine (8-OH-dG). OGG1 is a 38.8 kDa protein containing 52 amino acid it found in bacterial, archaeal and eukaryotic species. OGG1 in DNA causes G:C to T:A transversions and, therefore, it could be responsible for mutations that lead to carcinogenesis.

### Uniprot ID

# O15527 2

### Synonyms

8-oxoguanine DNA glycosylase

### Sequence Note

Met1-Gly345

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

## Image

### Tainan Headquarter

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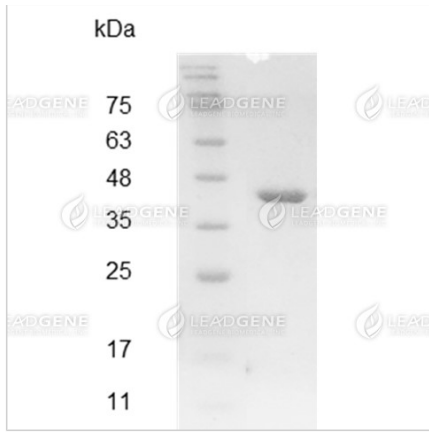
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SDS-PAGE analysis of recombinant human OGG1.

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