

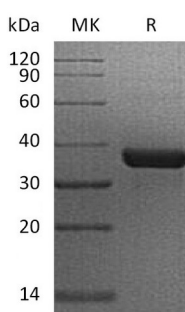
**Product Name: Recombinant Human OGG1**  
**Catalog #: PEH1248**



## Summary

|                                 |                                                                                                                                                                      |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>                     | OGG1/N-glycosylase/DNA lyase                                                                                                                                         |
| <b>Purity</b>                   | Greater than 95% as determined by reducing SDS-PAGE                                                                                                                  |
| <b>Endotoxin level</b>          | <1 EU/μg as determined by LAL test.                                                                                                                                  |
| <b>Construction</b>             | Recombinant Human N-Glycosylase is produced by our E.coli expression system and the target gene encoding Met1-Gly345 is expressed.                                   |
| <b>Accession #</b>              | AAH00657.1                                                                                                                                                           |
| <b>Host</b>                     | E.coli                                                                                                                                                               |
| <b>Species</b>                  | Human                                                                                                                                                                |
| <b>Predicted Molecular Mass</b> | 38.8 KDa                                                                                                                                                             |
| <b>Formulation</b>              | Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 1mM EDTA, pH 8.5.                                                                               |
| <b>Shipping</b>                 | The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.                                                   |
| <b>Stability&amp;Storage</b>    | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles. |
| <b>Reconstitution</b>           |                                                                                                                                                                      |

## SDS-PAGE image



## Background

|                          |                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Alternative Names</b> | N-Glycosylase/DNA Lyase; 8-Oxoguanine DNA Glycosylase; DNA-(Apyrimidinic Site) Lyase; AP Lyase; OGG1; MMH; MUTM; OGH1                                                                                         |
| <b>Background</b>        | Human N-Glycosylase/DNA Lyase(OOG1) is a DNA repair enzyme, which belongs to the type-1 OGG1 family. OOG1 incises DNA at 8-oxoG residues, and excises 7,8-dihydro-8-oxoguanine and 2,6-diamino-4-hydroxy-5-N- |

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methylformamidopyrimidine (FAPY) from damage DNA. It has a  $\beta$ -lyase activity that nicks DNA 3' to the lesion. OOG1 together with APEX1 is recruited to nuclear speckles in UVA-irradiated cells. The OGG1 gene mutations may be caused Renal cell carcinoma.

**Note**

For Research Use Only , Not for Diagnostic Use.