

Recombinant Human OGG1

Catalog No: C128

Description	Recombinant Human N-Glycosylase is produced by our E.coli expression system and the target gene encoding Met1-Gly345 is expressed with a GST tag at the N-terminus.
Source	E.coli
Alternative name	N-Glycosylase/DNA Lyase; 8-Oxoguanine DNA Glycosylase; DNA-(Apurinic or Apyrimidinic Site) Lyase; AP Lyase; OGG1; MMH; MUTM; OGH1
Accession No.	AAH00657.1
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 1mM EDTA, pH 8.5.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg).
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid Sequence	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQS MAIRYIADKHNMLGGC PKERAISMLEGAVLDIRYGVSRAYS KDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDF MLYDALDVVLYMDPMC LDAFPKLVCFKKRIEAIQIDKYLKSSKYIAWPLQGWQATFGGGDHPKSDLVPRGSMMPARALLPRR MGHRTLASTPALWASIP CPRSELRLDLVLP SGQSFRWREQSPAHSWGLADQVWTLTQTTEEQLHCTVYRGDKSQASRPTPD ELEAVRKYFQLDVTLAQLY HHWGSVDSHFQEVAQKFQGVRLLRQDPIECLFSFICSSNNNIARITGMVERLCQAFGPRLIQLDDVT YHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAILEEQGGLAWLQQLRESSYEEAHKALCILPGVGTKVADCICLMALDK PQAVPVDVHMWHIAQR DYSWHPTTSQAKGSPQTNKELGNFFRSLWGPYAGWAQAVLFSADLRQSRHAQEPPAKRRKGSK GPEG
Background	Human N-Glycosylase/DNA Lyase(OOG1) is a DNA repair enzyme, which belongs to the type-1 OOG1 family. OOG1 incises DNA at 8-oxoG residues, and excises 7,8-dihydro-8-oxoguanine and 2,6-diamino-4-hydroxy-5-N- methylformamidopyrimidine (FAPY) from damage DNA. It has a β-lyase activity that nicks DNA 3' to the lesion. OOG1 together with APEX1 is recruited to nuclear speckles in UVA-irradiated cells. The OOG1 gene mutations may be caused Renal cell carcinoma.

SDS-PAGE

