Recombinant Human OGG1 protein, His-tagged

Cat. No. OGG1-29565TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human OGG1(1-345 aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
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.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) Containing 100 mM NaCl, 40% Glycerol
Molecular Mass	41.2 kDa(368aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH TGSMPARALL PRRMGHRTLA STPALWASIP CPRSELRLDL VLPSGQSFRW REQSPAHWSG VLADQVWTLTQTEEQLHCTV YRGDKSQASR PTPDELEAVR KYFQLDVTLA QLYHHWGSVD SHFQEVAQKF QGVRLLRQDP IECLFSFICS SNNNIARITGMVERLCQAFG PRLIQLDDVT YHGFPSLQAL AGPEVEAHLR KLGLGYRARY VSASARAILE EQGGLAWLQQ LRESSYEEAH KALCILPGVGTKVADCICLM ALDKPQAVPV DVHMWHIAQRDYSWHPTTSQ AKGPSPQTNK ELGNFFRSLW GPYAGWAQAV LFSADLRQCR HAQEPPAKRRKGSKGPEG

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Purity	> 90% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	OGG1 8-oxoguanine DNA glycosylase [Homo sapiens]
Official Symbol	OGG1
Synonyms	OGG1; 8-oxoguanine DNA glycosylase; N-glycosylase/DNA lyase; 8 hydroxyguanine DNA glycosylase; HMMH; HOGG1; MUTM; OGG1 type 1d; OGG1 type 1e; OGG1 type 1g; OGG1 type 1h; OGH1; AP lyase; OGG1 type 1f; 8-hydroxyguanine DNA glycosylase; DNA-apurinic or apyrimidinic site lyase;
Gene ID	4968
mRNA Refseq	NM_002542
Protein Refseq	NP_002533
MIM	601982
UniProt ID	O15527
Chromosome Location	3p26

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Pathway	Base Excision Repair, organism-specific biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Base-Excision Repair, AP Site Formation, organism-specific biosystem; Base-free sugar-phosphate removal via the single-nucleotide replacement pathway, organism-specific biosystem
Function	damaged DNA binding; endonuclease activity; hydrolase activity, acting on glycosyl bonds; lyase activity; oxidized purine base lesion DNA N-glycosylase activity; protein binding;

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