Recombinant Human 8-oxoguanine DNA Glycosylase, His-tagged

Cat. No. OGG1-783H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human OGG1 protein, fused to His-tag at N-terminus, was expressed in*E.coli*and purified by using conventional chromatography. MW =41.2 kDa(368aa), confirmed by MALDI-TOF.
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.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH TGSMPARALL PRRMGHRTLA STPALWASIP CPRSELRLDL VLPSGQSFRW REQSPAHWSG VLADQVWTLT QTEEQLHCTV YRGDKSQASR PTPDELEAVR KYFQLDVTLA QLYHHWGSVD SHFQEVAQKF QGVRLLRQDP IECLFSFICS SNNNIARITGMVERLCQAFG PRLIQLDDVT YHGFPSLQAL AGPEVEAHLR KLGLGYRARY VSASARAILE EQGGLAWLQQ LRESSYEEAH KALCILPGVG TKVADCICLM ALDKPQAVPV DVHMWHIAQ RDYSWHPTTSQ AKGPSPQTNK ELGNFFRSLW GPYAGWAQAV LFSADLRQCR HAQEPPAKRRKGSKGPEG

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Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) Containing 100 mM NaCl, 40% Glycerol.
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	OGG1 8-oxoguanine DNA glycosylase [Homo sapiens]
Synonyms	OGG1; 8-oxoguanine DNA glycosylase; HMMH; MUTM; OGH1; HOGG1; N-glycosylase/DNA lyase; AP lyase; OTTHUMP00000122621; OTTHUMP00000207399; OTTHUMP00000207403; OTTHUMP00000207404; 8-hydroxyguanine DNA glycosylase; DNA-apurinic or apyrimidinic site lyase; EC 4.2.99.18; OGG1 type 1e; OGG1 type 1d; OGG1 type 1g; OGG1 type 1h; MMH
Gene ID	4968
mRNA Refseq	NM_002542
Protein Refseq	NP_002533
MIM	601982
UniProt ID	O15527
Chromosome Location	3p26.2

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Pathway	Base excision repair
Function	damaged DNA binding; endonuclease activity; hydrolase activity, acting on glycosyl bonds; lyase activity; oxidized purine base lesion DNA N-glycosylase activity; protein binding
PDB rendering based on 1ebm.	

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