

AR09606PU-L

Human OGG1 (1-345, His-tag) - Purified

Alternate names:

MMH, MUTM, N-glycosylase/DNA lyase, OGH1

Quantity:

0.5 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[O15527](#)

NCBI:

[NP_002533](#)

GeneID:

[4968](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS-PAGE

Buffer System: 20 mM Tris-HCl Buffer (pH 8.0) containing 100 mM NaCl, 40% Glycerol

Description:

Recombinant human OGG1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AA Sequence:

MGSSHHHHH SGLVPRGSH TGSMPARALL PRRMGHRTLA STPALWASIP CPRSELRLDL
VLPSPGQSFRW REQSPAHSWG VLADQVWTLT QTEQLHCTV YRGDKSQASR PTPDELEAVR
KYFQLDVTLA QLYHHWGSVD SHFQEVAKKF QGVRLLRQDP IECLFSFICS SNNNIARITG
MVERLCQAFG PRLIQLDDVT YHGFPSLQAL AGPEVEAHLR KLGLGYRARY VSASARAILE
EQGGLAWLQQ LRESSYEEAH KALCILPGVG TKVADCICLM ALDKPQAVPV
DVHMMHIAQRDYSWHPPTSQ AKGPSPQTNK ELGNFFRSLW GPYAGWAQAV LFSADLRQCR
HAQEPPAKRR KGSKGPEG

Molecular weight: 41.2 kDa (368aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

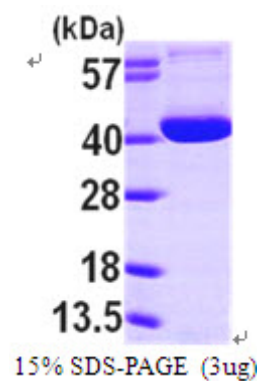
Shelf life: one year from despatch.

General Readings:

Seeberg E., et al. (2002). Nucleic Acids Res. 30(11):2349-57.

Hodges NJ., et al (2010). DNA Repair (Amst). 9(2):144-52.

Pictures:



Recombinant human OGG1, 1-345aa, His-tagged

