NKMAXBio We support you, we believe in your research

Recombinant human OGG1 protein

Catalog Number: ATGP0668

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-345aa

UniProt No.
O15527

NCBI Accession No.
AAH00657.1

Alternative Names
8-oxoguanine DNA glycosylase, N-glycosylase/DNA lyase, DNA-apurinic or apyrimidinic site lyase, AP lyase, HMMH, HOGG1, OGH1, MUTM

PRODUCT SPECIFICATION

Molecular Weight
41.2 kDa (368aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 40% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

Recombinant human OGG1 protein

Catalog Number: ATGP0668

Amino acid Sequence

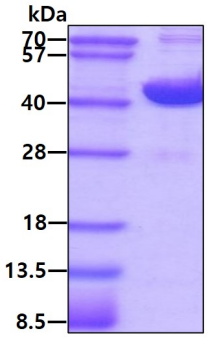
<MGSSHHHHHH SSGLVPRGSH TGS>MPARALL PRRMGHRTLA STPALWASIP CPRSELRLDL VLPSGQSFRW REQSPAHWSG VLADQVWTLT QTEEQLHCTV YRGDKSQASR PTPDELEAVR KYFQLDVTLA QLYHHWGSVD SHFQEVAQKF QGVRLLRQDP IECLFSFICS SNNNIARITG MVERLCQAFG PRLIQLDDVT YHGFPSLQAL AGPEVEAHLR KLGLGYRARY VSASARAILE EQGGLAWLQQ LRESSYEEAH KALCILPGVG TKVADCICLM ALDKPQAVPV DVHMWHIAQRDYSWHPTTSQ AKGPSPQTNK ELGNFFRSLW GPYAGWAQAV LFSADLRQCR HAQEPPAKRR KGSKGPEG

General References

Seeberg E., et al. (2002). Nucleic Acids Res. 30(11):2349-57.
Hodges NJ., et al (2010). DNA Repair (Amst). 9(2):144-52.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.