

## OGG1 Human

**Description:** OGG1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 368 amino acids (1-345 a.a.) and having a molecular mass of 41.2 kDa. The OGG1 is fused to 23 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-260

For research use only.

**Synonyms:** HMMH, HOGG1, MUTM, OGH1, AP lyase.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH TGSMPARALL PRRMGHRTLA  
STPALWASIP CPRSELRLDL VLPSSGQSFRW REQSPAHSWG VLADQVWTLT QTEQLHCTV  
YRGDKSQASR PTPDELEAVR KYFQLDVTLA QLYHHWGSVD SHFQEVAKKF QGVRLLRQDP  
IECLFSFICS SNNNIARITG MVERLCQAFG PRLIQLDDVT YHGFPSLQAL AGPEVEAHLR  
KLGLGYRARY VS

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

0.5mg/ml solution containing 20mM Tris-HCl buffer pH-8, 0.1M NaCl and 40% Glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

OGG1 is a DNA glycosylase enzyme which takes part in base excision repair. OGG1 protein is the main enzyme accountable for the excision of 7,8-dihydro-8-oxoguanine (8-oxoG), a mutagenic base byproduct which arises as a result of exposure to reactive oxygen species (ROS). OGG1 shows beta lyase activity that nicks DNA 3' to the lesion.

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