

OGG1, 1-345aa, Human, His tag, E.coli

Cat.NO.: TP03247

3th Edition

Synonyms:8-oxoguanine DNA glycosylase 1, HMMH, HOGG1, MUTM, OGH1, AP lyase

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

Sequences:

MGSSHHHHHSSGLVPRGSHTGSMPARALLPRRMGHRTLASTPALWASIPCPRSELRLDLVLPSSGQSFRWREQS
PAHWSGVLADQVWTLTQTEQLHCTVYRGDKSQASRPTPDELEAVRKYFQLDVTLAQLYHHWGSVDSHFQEVAQ
KFQGVRLLRQDPIECLFSFICSSNNNIARITGMVERLCQAFGPRLIQLDDVITYHGFPSLQALAGPEVEAHLRKLGLGY
RARYVSASARAILEEQGGLAWLQQLRESSYEEAHKALCILPGVGTKVADCICLMALDKPQAVPVDVHMWHIAQRDY
SWHPTTSQAKGSPSQTNKELGNFFRSLWGPYAGWAQAVLFSADLRQCRHAQEPPAKRRKGSKGPEG

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.