

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



MYH (Y176) Peptide

Cat No.: BS2535P

Background

MYH (mutY homolog (E. coli)) is a DNA glycosylase mismatch repair enzyme that in conjunction with mutM (OGG1), cleaves adenine residues paired with either oxidized (8-hydroxyguanines) or non-modified guanines in order to correct A/G and A/C mismatches. Repair of most modified and mispaired bases in the genome is initiated by DNA glycosylases, which bind and cleave N-glycosyl bonds to initiate base excision repair. MYH is crucial for the avoidance of mutations resulting from oxidative DNA damage. Multiple N-terminal splice variants of MYH exist in mammalian cells. Increasing levels of MYH in A549 cells exposed to oxygen and infrared radiation leads to improvements in cell survival. Biallelic MYH germ-line mutations predispose humans to colorectal adenomas and carcinomas. MYH is abundant in neurons where mitochondrial genomes exposed to reactive oxygen species (ROS) that damage DNA must maintain integrity over the entire mammalian life span.

Swiss-Prot

Q9UIF7

Applications

Blocking

Specificity

This peptide can be used with studies using BS2535 MYH (Y176) pAb.

Purification & Purity

Synthetic peptide MYH (Y176). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term.

Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.