



Recombinant Rat A/G-specific adenine DNA glycosylase (Mutyh)

Product Code	CSB-EP840303RA-B
Abbreviation	Mutyh
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q8R5G2
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MKKLRASVRS HKKQPANHKR RGKCALSSSQ AKPSGLDGLA KQKREELLKT PVSPYHLFSD IADVTAFRRN LLSWYDQEKR DLPWRKRVKE ETNLDRRAYA VWVSEVMLQQ TQVATVIDYY TRWMQKWPTL QDLASASLEE VNQLWSGLGY YSRGRRLQEG ARKVVEELGG HVPRTAETLQ QLLPGVGRYT AGAIASIAFD QVTGVVDGNV IRVLCRVRAI GADPTSSFVS HHLWDLAQQ VDPARPGDFN QAAMELGATV CTPQRPLCNH CPVQSLCRAH QRVGQGRLSA LPGSPDIEEC ALNTRQCQLC LPSTNPWDPN MGVVNFPRKA SRRPPREEYS ATCVVEQPGA TGGPLILLVQ RPNSGLLAGL WEFPSVTLEP SGQHGHKALL QELQHWSAPL PTTPLQHLGE VIHVFSHIKL TYQVYSLALE GQTPASTTLP GARWLTWEEF RNAAVSTAMK KVFRVYEEHR RGTCKGSKRP QVCTPSSRKK PSRGQQVLDR FFQRHIPTHK PNSTTQ
Source	E.coli
Target Names	Mutyh
Protein Names	Recommended name: A/G-specific adenine DNA glycosylase EC= 3.2.2.- Alternative name(s): MutY homolog Short name= rMYH
Expression Region	1-516
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	This gene encodes a DNA glycosylase involved in oxidative DNA damage repair. The enzyme excises adenine bases from the DNA backbone at sites where adenine is inappropriately paired with guanine, cytosine, or 8-oxo-7,8-dihydroguanine, a major oxidatively damaged DNA lesion. The protein is localized to the nucleus and mitochondria. Mutations in this gene result in heritable predisposition to colon and stomach cancer. Multiple transcript variants encoding different isoforms have been found for this gene.



Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.