



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

<b>Product Code</b>	CSB-MP840303RA
<b>Abbreviation</b>	Mutyh
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q8R5G2
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MKKLRASVRS HKKQPANHKR RGKCALSSSQ AKPSGLDGLA KQKREELLKT PVSPYHLFSD IADVAFRRN LLSWYDQEKR DLPWRKRVKE ETNLDRRAYA VWVSEVMLQQ TQVATVIDYY TRWMQKWPTL QDLASASLEE VNQLWSGLGY YSRGRRLQEG ARKVVEELGG HVPRTAETLQ QLLPGVGRYT AGAIASIAFD QVTGVVDGNV IRVLCRVRAI GADPTSSFVS HHLWDLAQQQ VDPARPGDFN QAAMELGATV CTPQRPLCNH CPVQSLCRAH QRVGQGRLSA LPGSPDIEEC ALNTRQCQLC LPSTNPWDPN MGVVNFPRKA SRRPPREEYS ATCVVEQPGA TGGPLILLVQ RPNSGLLAGL WEFPSVTLEP SGQHQBKALL QELQHWSAPL PTTPLQHLGE VIHVFSHIKL TYQVYSLALE GQTPASTTLP GARWLTWEEF RNAAVSTAMK KVFRVYEEHR RGTCCKGSKRP QVCTPSSRKK PSRGQQVLDR FFQRHIPTHK PNSTTQ
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Mutyh
<b>Protein Names</b>	Recommended name: A/G-specific adenine DNA glycosylase EC= 3.2.2.- Alternative name(s): MutY homolog Short name= rMYH
<b>Expression Region</b>	1-516
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	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.