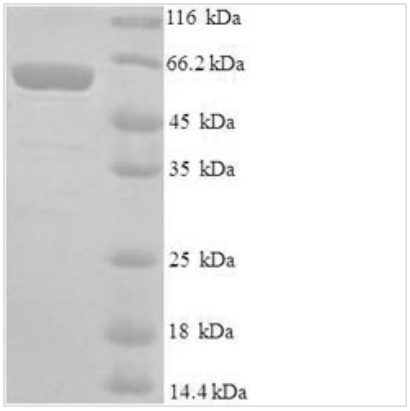
Recombinant Mouse E3 ubiquitin-protein ligase Mdm2 (Mdm2)

Product Code	CSB-EP013626MO
Relevance	E3 ubiquitin-protein ligase that mediates ubiquitination of p53/TP53, leading to its degradation by the proteasome. Inhibits p53/TP53- and p73/TP73-mediated cell cycle arrest and apoptosis by binding its transcriptional activation domain. Also acts as a ubiquitin ligase E3 toward itself and ARRB1. Permits the nuclear export of p53/TP53. Promotes proteasome-dependent ubiquitin-independent degradation of retinoblastoma RB1 protein. Inhibits DAXX-mediated apoptosis by inducing its ubiquitination and degradation. Component of the TRIM28/KAP1-MDM2-p53/TP53 complex involved in stabilizing p53/TP53. Also component of the TRIM28/KAP1-ERBB4-MDM2 complex which links growth factor and DNA damage response pathways. Mediates ubiquitination and subsequent proteasome degradation of DYRK2 in nucleus. Ubiquitinates IGF1R and SNAI1 and promotes th to proteasomal degradation .
Abbreviation	Recombinant Mouse Mdm2 protein
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.	P23804
Alias	Double minute 2 proteinOncoprotein Mdm2p53-binding protein Mdm2
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MCNTNMSVSTEGAASTSQIPASEQETLVRPKPLLLKLLKSVGAQNDTYTMKEII FYIGQYIMTKRLYDEKQQHIVYCSNDLLGDVFGVPSFSVKEHRKIYAMIYRNLV AVSQQDSGTSLSESRRQPEGGSDLKDPLQAPPEEKPSSSDLISRLSTSSRRR SISETEENTDELPGERHRKRRRSLSFDPSLGLCELREMCSGGSSSSSSSSSES TETPSHQDLDDGVSEHSGDCLDQDSVSDQFSVEFEVESLDSEDYSLSDEGHE LSDEDDEVYRVTVYQTGESDTDSFEGDPEISLADYWKCTSCNEMNPPLPSHC KRCWTLRENWLPDDKGKDKVEISEKAKLENSAQAEEGLDVPDGKKLTENDAK EPCAEEDSEEKAEQTPLSQESDDYSQPSTSSSIVYSSQESVKELKEETQDKDE SVESSFSLNAIEPCVICQGRPKNGCIVHGKTGHLMSCFTCAKKLKKRNKPCPV CRQPIQMIVLTYFN
Research Area	Others
Source	E.coli
Target Names	Mdm2
Expression Region	1-489aa

Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	58.6kDa
Protein Length	Full Length

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The process of expressing the recombinant mouse Mdm2 protein in the E.coli requires the recombinant DNA gene formed by the integration of encoding gene for the 1-489aa of the mouse Mdm2 protein and N-terminal 6xHis tag sequence, the expression vector that the recombinant DNA gene inserts into, the E.coli that provided the necessary macromolecules and components for transcription and translation of the cloned expression vector. After isolation and purification, this N-terminal 6xHis-tagged recombinant Mdm2 protein was obtained. This recombinant Mdm2 protein is characterized by high purity (>90%, SDS-PAGE). This Mdm2 protein ran along the gel to the band of approximately 58 kDa molecular weight.

E3 ubiquitin-protein ligase Mdm2 is a protein encoding by a gene named Mdm2 in mouse and a gene named MDM2 in human. Generally, MDM2 is known as a negative regulator of the tumour suppressor p53, making it an attractive target for anti-cancer drug design. Mdm2 affects p53 stability from two sections, one is as an E3 ubiquitin ligase that recognizes the N-terminal trans-activation domain of the p53 tumor suppressor, another is as an inhibitor of p53 transcriptional activation. Currently, diseases involved MDM2 include Lessel-Kubisch Syndrome and Accelerated Tumor Formation.

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

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of lyophilized form is 12 months at -20°C/-80°C.