

MDM2 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	E3 ubiquitin-protein ligase Mdm2;RING-type E3 ubiquitin transferase Mdm2;Oncoprotein Mdm2;Double minute 2 protein;Mdm2;p53-binding protein Mdm2
Protein Construction:	1-489 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	P23804
Molecular Weight:	58.6 kDa (predicted)
AA Sequence:	MCNTNMSVSTEGAASTSQIPASEQETLVRPKPLLLKLLKSVGAQNPTYMKEIIFYIGQYIMTKRLYDEKQQHI VYCSNDLLGDVFGVPSFSVKEHRKIYAMIYRNLVAVSQDQSGTSLSESRRQPEGGSDLKDPLQAPPEEKSSS DLISRLSTSSRRRSISETEENTDELPGERHRKRRRSLSFDPGLGCELREMCSSGSSSSSSSSSESTETPSHQDL DGVSEHSGDCLDQDSVSDQFSVEFEVESLDESDYLSDEGHLSDEDEDEVYRVTVYQTGESDTSFEGDPEIS LADYWKCTSCNEMNPPLPSHCKRCWTLRENWLPDDKGGKDKVEISEKAKLENSAQAEGLDVPDGKKTEND AKEPCAEEEDSEEKAEQTPLSQESDDYSQPSTSSSIVYSSQESVKELKEETQDKDESVESSFLNAIEPCVICQGR PKNGCIVHGKTGHLMSCFTCAKLLKRNKPCVCRQPIQMIVLTYFN

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris/PBS-based buffer

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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, ARRB1 and ARBB2. 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 them to proteasomal degradation. Ubiquitinates DCX, leading to DCX degradation and reduction of the dendritic spine density of olfactory bulb granule cells. Ubiquitinates DLG4, leading to proteasomal degradation of DLG4 which is required for AMPA receptor endocytosis. Negatively regulates NDUF51, leading to decreased mitochondrial respiration, marked oxidative stress, and commitment to the mitochondrial pathway of apoptosis. Binds NDUF51 leading to its cytosolic retention rather than mitochondrial localization resulting in decreased supercomplex assembly (interactions between complex I and complex III), decreased complex I activity, ROS production, and apoptosis.

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