

Recombinant Human MDM2 Protein (S17-N111), Tag Free

Cat. No. MDM2-0426H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MDM2(S17-N111) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	S17-N111
Description	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 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 NDUFS1, leading to decreased mitochondrial respiration, marked oxidative stress, and commitment to the

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mitochondrial pathway of apoptosis. Binds NDUFS1 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.

Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	MDM2 Mdm2, p53 E3 ubiquitin protein ligase homolog (mouse) [Homo sapiens (human)]
Official Symbol	MDM2
Synonyms	MDM2; Mdm2, p53 E3 ubiquitin protein ligase homolog (mouse); Mdm2 p53 binding protein homolog (mouse), Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse), mouse double minute 2, human homolog of; p53 binding protein; E3

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ubiquitin-protein ligase Mdm2; HDM2; HDMX; MGC5370; oncoprotein Mdm2; MDM2 variant FB28; MDM2 variant FB30; double minute 2, human homolog of; p53-binding protein; Mdm2, transformed 3T3 cell double minute 2, p53 binding protein; hdm2; ACTFS; MGC71221;

Gene ID 4193

mRNA Refseq NM_002392

Protein Refseq NP_002383

MIM 164785

UniProt ID Q00987

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