

Recombinant Human Mdm2 p53 Binding Protein Homolog, His-tagged

Cat. No. MDM2-1064H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human MDM2 with His tag; amino acids 1-491, approximately 56kDa.
Species	Human
Source	Human
ProteinLength	1-491 a.a.
Description	MDM2 is an important negative regulator of the p53 tumor suppressor. It is the name of a gene as well as the protein encoded by that gene. MDM2 protein functions both as an E3 ubiquitin ligase that recognizes the N-terminal trans-activation domain (TAD) of the p53 tumor suppressor and an inhibitor of p53 transcriptional activation.
Applications	SDS-PAGE
Molecular Weight	56kDa
Purity	MDM2 is purified by affinity and FPLC chromatography and is greater than 95% homogeneous based on SDS-PAGE analysis.
Concentration	0.500 mg/ml
Form	Liquid

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Biological activity	1 unit equals 1 nanogram of purified protein.
Storage buffer	Preservative: None; Constituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Pathways	AKT phosphorylates targets in the cytosol; Bladder cancer; Androgen Receptor Signaling Pathway; Cell Cycle Checkpoints; Apoptosis; Cell cycle; Aurora A signaling; Chronic myeloid leukemia; Direct p53 effectors; Endocytosis; Downstream signaling of activated FGFR; ErbB signaling pathway; G1 to S cell cycle control; G1/S DNA Damage Checkpoints; Glioma; Glucocorticoid receptor regulatory network; Glutamate Binding, Activation of AMPA Receptors and Synaptic Plasticity; Melanoma; NGF signalling via TRKA from the plasma membrane; Neurotransmitter Receptor Binding And Downstream Transmission In The Postsynaptic Cell; PI-3K cascade; PI3K/AKT activation; Signaling by FGFR; PIP3 activates AKT signaling; Regulation of retinoblastoma protein; Sumoylation by RanBP2 regulates transcriptional repression
Full Length	Full L.
GENE INFORMATION	
Gene Name	MDM2 Mdm2 p53 binding protein homolog (mouse) [Homo sapiens]
Official Symbol	MDM2
Synonyms	MDM2; Mdm2 p53 binding protein homolog (mouse); HDMX; hdm2; MGC5370; MGC71221; E3 ubiquitin-protein ligase Mdm2; oncoprotein Mdm2; MDM2 variant FB28; MDM2 variant FB30; OTTHUMP00000183488; OTTHUMP00000183489; OTTHUMP00000183495; OTTHUMP00000183496; OTTHUMP00000240280;

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OTTHUMP00000240285; OTTHUMP00000240290; ubiquitin-protein ligase E3 Mdm2; double minute 2 human homolog of p53-binding protein; Mdm2, transformed 3T3 cell double minute 2, p53 binding protein; p53-binding protein Mdm2; Oncoprotein Mdm2; mouse double minute 2, human homolog of; p53-binding protein; ubiquitin-protein ligase E3 Mdm2; EC 6.3.2; Double minute 2 protein

Gene ID [4193](#)

mRNA Refseq [NM_002392](#)

Protein Refseq [NP_002383](#)

MIM [164785](#)

UniProt ID [Q00987](#)

Chromosome Location 12q14.3-q15

Function zinc ion binding; ubiquitin-protein ligase activity; protein binding; p53 binding; metal ion binding; ligase activity; enzyme binding

Solution structure of Mdm2.

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