

Active Recombinant Human MDM2

Cat. No. MDM2-2319H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MDM2 was expressed in E. coli.
Species	Human
Source	E.coli
Description	<p>This gene encodes a nuclear-localized E3 ubiquitin ligase. The encoded protein can promote tumor formation by targeting tumor suppressor proteins, such as p53, for proteasomal degradation. This gene is itself transcriptionally-regulated by p53. Overexpression or amplification of this locus is detected in a variety of different cancers. There is a pseudogene for this gene on chromosome 2. Alternative splicing results in a multitude of transcript variants, many of which may be expressed only in tumor cells.</p>
Form	50 mM Hepes pH 8.0, 200 mM NaCl, 10% glycerol, 5 mM TCEP
Bio-activity	<p>Recombinant Human Mdm2/Hdm2 is a RING finger Ubiquitin ligase (E3) that functions downstream of a Ubiquitin-activating (E1) enzyme and a Ubiquitin-conjugating (E2) enzyme to conjugate Ubiquitin to substrate proteins. Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human Mdm2/Hdm2 concentration of 0.5-5 μM.</p>
Molecular Mass	55 kDa
Purity	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal

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Coomassie® Blue stain.

Storage

Avoid repeated freeze-thaw cycles. 12 months from date of receipt, -70 °C as supplied. 3 months, -70 °C under sterile conditions after opening.

GENE INFORMATION

Gene Name

MDM2 MDM2 proto-oncogene, E3 ubiquitin protein ligase [Homo sapiens (human)]

Official Symbol

MDM2

Synonyms

MDM2; MDM2 proto-oncogene, E3 ubiquitin protein ligase; HDMX; hdm2; ACTFS; E3 ubiquitin-protein ligase Mdm2; MDM2 oncogene, E3 ubiquitin protein ligase; Mdm2, p53 E3 ubiquitin protein ligase homolog; Mdm2, transformed 3T3 cell double minute 2, p53 binding protein; double minute 2, human homolog of; p53-binding protein; oncoprotein Mdm2

Gene ID

4193

mRNA Refseq

NM_001145337

Protein Refseq

NP_001138809

MIM

164785

UniProt ID

Q00987

Chromosome Location

12q14.3-q15

Pathway

AKT phosphorylates targets in the cytosol; Adaptive Immune System; Cellular

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Senescence

Function

enzyme binding; identical protein binding; ligase activity; p53 binding

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