

Active Recombinant Human MDM2, GST-tagged

Cat. No. MDM2-2320H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MDM2, fused with an N-terminal GST (glutathione S-transferase) tag, was expressed in E. coli.
Species	Human
Source	E.coli
Description	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.
Form	50 mM Hepes pH 8, 200 mM NaCl, 10% glycerol, 5 mM TCEP
Bio-activity	Recombinant Human GST-Mdm2 is a 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 GST-Mdm2 concentration of 0.5-4 μ M.
Molecular Mass	82 kDa

 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

Purity	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal 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

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Pathway	AKT phosphorylates targets in the cytosol; Adaptive Immune System; Cellular Senescence
Function	enzyme binding; identical protein binding; ligase activity; p53 binding

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