

# Recombinant Human MDM2, GST (rHuMDM2, GST)

## PrimeGene Technical DataSheet

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<b>Catalog Number:</b>	461-05
<b>Source:</b>	<i>Escherichia coli</i>
<b>Molecular Weight:</b>	Approximately 82KDa, a single non-glycosylated polypeptide chain containing 719 amino acids.
<b>Size:</b>	10µg/ 100µg/ 500µg/ 1mg
<b>AA Sequence:</b>	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYID GDVKLTQSMAIIRYIADKHNMLGGCPKERAISMLEGAVLDIRYGVSRAYSKDFETLKV DFLSKLPPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFK KRIEAIQIDKYLKSSKYIAWPLQGWQATFGGGDHPKSDLEVLVFGQPMCNTNMSVPTDGAV TTSQIPASEQETLVRPKPLLLKLLKSVGAQKDTYTMKEVLFYLGQYIMTKRLYDEKQQHIVY CSNDLLGDLFGVPSFSVKEHRKIYTMIRNLVVVNQQESSDSGTSVSENRCHEGGSDQKDL VQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSEGERQKRKHSISLSFDESALCVIR EICCERSSSESTGTPSNPDL DAGVSEHSGDWLDQDSVSDQFSVEFEVESLSESYSLSEEGQE LSDDEDVEYQVTVYQAGESD TDSFEEDPEISLADYWKCTSCNEMNPPLPSHCNRCWALREN WLPEDKKGDKGEISEKAKLENSTQAEFGDVPDCKKTIVNDSRESCVEENDDKITQASQSQE SEDYSQPSTSSSIYSSQEDVKEFEREETQDKEESVESSLPLNAIEPCVICQGRPKNGCIVHGKT GHLMACFTCAKLLKRNKPCPVCQRQPIQMIVLTYFP
<b>Purity:</b>	≥ 70% by SDS-PAGE analysis.
<b>Biological Activity:</b>	Test in Process.
<b>Physical Appearance:</b>	Sterile Colorless liquid.
<b>Formulation:</b>	Supplied as a 0.2 µm filtered concentrated sterile solution in 50mM Tris, 150mM NaCl, 5mM TCEP, 10% glycerol, pH8.00.
<b>Shipping:</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 6 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 3 months, -20 to -70 °C under sterile conditions after opening.</li></ul>
<b>Usage:</b>	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

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### *Human Mdm2*

Double minute 2 protein (Mdm2, also known as Hdm2) is a RING-finger Ubiquitin E3 ligase that acts as a major regulator of the tumor suppressor p53. Mdm2 inhibits p53-mediated cell cycle arrest and apoptosis by binding its transcriptional activation domain. The E3 ligase activity is confined to the C-terminal domain of Mdm2 and is responsible for the ubiquitination and subsequent proteasomal degradation of p53. Although the isolated RING domain is capable of p53 ubiquitination, other regions of the protein including a central acidic domain are also crucial for full E3 ligase activity. Mdm2 also regulates its own

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intracellular levels by auto-ubiquitination, and can be SUMOylated which decreases autoubiquitination activity but increases activity toward p53. Mdm2 also affects the cell cycle and apoptosis through interactions with other proteins such as retinoblastoma1 (pRB) and ribosomal protein L5.

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