

Lot # XXXXX

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MATERIAL DATA SHEET

GST-Mdm2/Hdm2, human recombinant

Cat. # E3-202

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 intracellular levels by auto-ubiquitination, and can be SUMOylated which decreases autoubiquitylation 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. This recombinant protein contains an N-terminal GST tag.

Product Information

Quantity:	50 µg
Stock:	X mg/ml (X µM) in 50 mM Hepes pH 8, 200 mM NaCl, 10% glycerol, 5 mM TCEP
MW:	83 kDa
Purity:	> 85% by SDS-PAGE

Use & Storage

Use:	Typical enzyme concentration to support conjugation <i>in vitro</i> is 0.5-5 µM depending on conditions.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

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