

## Recombinant Human MDM4, His-tagged

Cat. No. MDM4-194H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human MDM4 (1-137) was expressed in E. coli cells using an N-terminal His tag.

**Species** Human

**Source** E.coli

**ProteinLength** 1-137 a.a.

**Description** MDM4 is a nuclear protein that contains a p53 binding domain at the N-terminus and a RING finger domain at the C-terminus. MDM4 shows structural similarity to p53-binding protein MDM2 and both proteins bind the p53 tumor suppressor protein and inhibit its activity. However, unlike MDM2, MDM4 does not cause nuclear export or degradation of p53. Instead, MDM4 inhibits p53 activity by binding to the transcriptional activation domain of p53. MDM4 is overexpressed in a variety of human cancers. Expression level of MDM4 is significantly higher in chronic lymphocytic leukemia. MDM4 is a specific chemotherapeutic target for treating retinoblastoma.

**Form** Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.

**Molecular Mass** ~17.3 kDa

**Purity** >75% by densitometry

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<b>Applications</b>	Western Blot
<b>Storage</b>	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Concentration</b>	0.2 µg/µl
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MDM4 Mdm4 p53 binding protein homolog (mouse) [ Homo sapiens ]
<b>Official Symbol</b>	MDM4
<b>Synonyms</b>	MDM4; Mdm4 p53 binding protein homolog (mouse); Mdm4, transformed 3T3 cell double minute 4, p53 binding protein (mouse) , mouse double minute 4, human homolog of; p53 binding protein; protein Mdm4; MDMX; protein Mdmx; MDM4-related protein 1; mdm2-like p53-binding protein; double minute 4, human homolog of; p53-binding protein; Mdm4, transformed 3T3 cell double minute 4, p53 binding protein; HDMX; MRP1; MGC132766; DKFZp781B1423;
<b>Gene ID</b>	4194
<b>mRNA Refseq</b>	NM_001204171
<b>Protein Refseq</b>	NP_001191100
<b>MIM</b>	602704
<b>UniProt ID</b>	O15151

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<b>Chromosome Location</b>	1q32
<b>Pathway</b>	p53 pathway, organism-specific biosystem; p53 signaling pathway, organism-specific biosystem; p53 signaling pathway, conserved biosystem;
<b>Function</b>	enzyme binding; metal ion binding; protein binding; zinc ion binding; zinc ion binding;

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