

Active Recombinant Human MAX Dimerization Protein 1

Cat. No. MXD1-2502H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAD was expressed in an <i>E. coli</i> system and purified by an affinity column in combination with FPLC chromatography. 24 kDa.
Species	Human
Source	<i>E. coli</i>
Description	MAX dimerization protein belongs to a subfamily of MAX-interacting proteins. This protein competes with Myc for binding to MAX to form a sequence-specific DNA-binding complex, acting as a transcriptional repressor (while Myc appears to function as an activator) and is a candidate tumor suppressor. Both Myc and MAD, as well as the more recently described Mnt and Mga proteins, form heterodimers with MAX, permitting binding to specific DNA sequences. These DNA-bound heterodimers recruit coactivator or corepressor complexes that generate alterations in chromatin structure, which in turn modulate transcription. The wild-type c-Myc and c-Myc/MADBR proteins have indistinguishable biological activity and target gene recognition in vivo .
Applications	MAD can be applied to DNA binding, proliferation, differentiation, and apoptosis research studies.
Activity	1 unit equals 1 nanogram of purified protein.
Quality Control	The purified protein is greater than 95% homogeneous based on SDS-PAGE gel analysis.

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Reagents Supplied	1x dilution buffer A: 20 mM Tris-Cl (pH 8.0), 20% Glycerol, 100 mM KCl, 0.2 mM EDTA and 1mM DTT.
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Storage Conditions	Store at -80°C.
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GENE INFORMATION

Gene Name	MXD1 MAX dimerization protein 1 [Homo sapiens]
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Synonyms	MAX dimerization protein 1; MAD; MAD1; MGC104659; MXD1; max dimerization protein 1; max dimerizer 1; OTTHUMP00000202211; MAD protein (MAX-binding protein); MAX dimerizer
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Gene ID	4084
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mRNA Refseq	NM_002357
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Protein Refseq	NP_002348
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MIM	600021
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UniProt ID	Q05195
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Chromosome Location	2p13-p12
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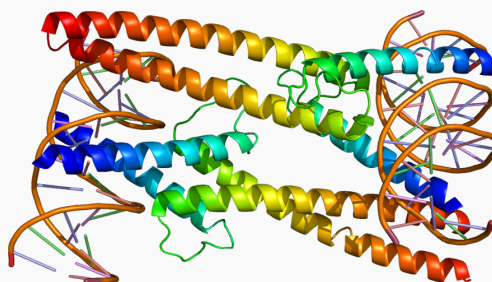
Function	protein binding; transcription cofactor activity; transcription corepressor activity; transcription factor activity
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PDB rendering based
on 1nlw.



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