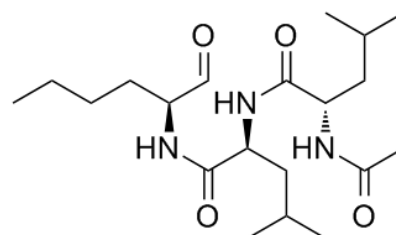


**Product Name** : MG-101  
**Cat. No.** : PC-45577  
**CAS No.** : 110044-82-1  
**Molecular Formula** : C<sub>20</sub>H<sub>37</sub>N<sub>3</sub>O<sub>4</sub>  
**Molecular Weight** : 383.5255  
**Target** : Proteasome  
**Solubility** : 10 mM in DMSO



## Biological Activity

A potent inhibitor of cysteine proteases including calpain I (K<sub>i</sub>= 190 nM), calpain II (K<sub>i</sub>= 220 nM), cathepsin B (K<sub>i</sub>= 150 nM) and cathepsin L (K<sub>i</sub>= 500 pM); activates p53-dependent apoptosis in tumor cell lines; increases activated p53, p21 and caspase levels and promotes cell cycle arrest through inhibition of cyclin D degradation in vitro.

## References

Zhang L, et al. J Biol Chem. 1999 Mar 26;274(13):8966-72.

Inoue S, et al. J Biol Chem. 1991 Jul 15;266(20):13311-7.

Sherwood SW, et al. Proc Natl Acad Sci U S A. 1993 Apr 15;90(8):3353-7.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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