

## **Data Sheet**

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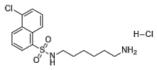
Global Supplier of Chemical Probes, Inhibitors & Agonists.

**Product Name** : Calmodulin inhibitor W-7

Molecular Weight : 377.32

Target : Myosin

**Solubility** : 10 mM in DMSO



## **Biological Activity**

W-7 hydrochloride is a selective calmodulin antagonist, inhibits the Ca2+-calmodulin-dependent phosphodiesterase and myosin light chain kinase (MLCK) with IC50 of 28  $\mu$ M and 51  $\mu$ M, respectively.

W-7 selectively blocks the phase of the cell cycle (G1/S boundary phase) in a manner. 25  $\mu$ M W-7 arrests the growth of the cells at the G1/S boundary phase of the cell cycle.

Treatment with W-7 results in the dose-dependent inhibition of cell proliferation in various human multiple myeloma cell lines

W-7 induces G1 phase cell cycle arrest by downregulating cyclins and upregulating p21cip1. W-7 induces apoptosis via caspase activation.

## References

H Hidaka, et al. Proc Natl Acad Sci U S A. 1981 Jul;78(7):4354-7.

M Asano. J Pharmacol Exp Ther. 1989 Nov;251(2):764-73.

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

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