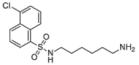


## **Data Sheet**

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**Product Name** : Sarcomere inhibitor W7



## **Biological Activity**

Sarcomere inhibitor W7 is a small-molecule **sarcomere** Ca2+ desensitizer, decreases intact cardiac myocyte contractility in a Ca2+ transient amplitude-independent manner.

W7 binds to cardiac troponin C (**cTnC**) and decrease Ca2+-binding affinity, resulting in Ca2+ desensitization of the myofilament.

W7 reduces contractility in a Ca2+-independent manner in adult living cardiac myocytes.

W7 exihibits a rapid effect to correct contractile dysfunction in both acquired (alkalosis) and inherited (RCM) forms of hyper-Ca2+-sensitive states at the myocyte level and whole heart levels.

## References

Thompson BR, et al. Am J Physiol Heart Circ Physiol. 2016 Jul 1;311(1):H36-43.

Cai F, et al. *Biochemistry*. 2018 Nov 20;57(46):6461-6469.

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

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