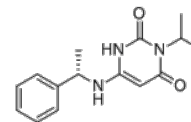


**Product Name** : Mavacamten  
**Cat. No.** : PC-60047  
**CAS No.** : 1642288-47-8  
**Molecular Formula** : C<sub>15</sub>H<sub>19</sub>N<sub>3</sub>O<sub>2</sub>  
**Molecular Weight** : 273.336  
**Target** : Myosin  
**Solubility** : 10 mM in DMSO



## Biological Activity

Mavacamten (SAR439152, MYK-461) is a small molecule that reduces contractility by decreasing the ATPase activity of the **cardiac myosin** heavy chain, with IC<sub>50</sub> of 490 and 711 nM for bovine cardiac and human cardiac myosin, respectively. Mavacamten (SAR439152, MYK-461) inhibits α and β isoforms of cardiac myosin with similar activity (IC<sub>50</sub>=0.3 μM). Mavacamten (SAR439152, MYK-461) suppresses the development of ventricular hypertrophy, cardiomyocyte disarray, and myocardial fibrosis and attenuates hypertrophic and profibrotic gene expression in mice harboring heterozygous human mutations in the myosin heavy chain.

## References

- Green EM, et al. *Science*. 2016 Feb 5;351(6273):617-21.  
 Stern JA, et al. *PLoS One*. 2016 Dec 14;11(12):e0168407.  
 Kawas RF, et al. *J Biol Chem*. 2017 Oct 6;292(40):16571-16577.

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

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