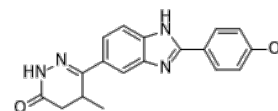


**Product Name** : Pimobendan  
**Cat. No.** : PC-23242  
**CAS No.** : 74150-27-9  
**Molecular Formula** : C<sub>19</sub>H<sub>18</sub>N<sub>4</sub>O<sub>2</sub>  
**Molecular Weight** : 334.38  
**Target** : Phosphodiesterase (PDE)  
**Solubility** : 10 mM in DMSO



## Biological Activity

Pimobendan (UD-CG115) is an oral Ca<sup>2+</sup>-sensitizer and PDE3 inhibitor (IC<sub>50</sub>=320 nM).

Pimobendan (UD-CG115) significantly increases the L-type calcium current (I<sub>Ca(L)</sub>) (evoked by depolarization to +10 mV from a holding potential of -40 mV) by 250.4% with the half-maximal stimulation (EC<sub>50</sub>) of 1.13 μM.

Pimobendan (UD-CG115) increases I<sub>Ca(L)</sub> at +10 mV by 67.4%, which is significantly lower than that obtained in human atrial cells.

Pimobendan (UD-CG115) shows a beneficial effect on survival in the murine model of EMC virus-induced myocarditis.

## References

Kajimoto K, et al. Br J Pharmacol. 1997 Aug;121(8):1549-56.

Iwasaki A, et al. J Am Coll Cardiol. 1999 Apr;33(5):1400-7.

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

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