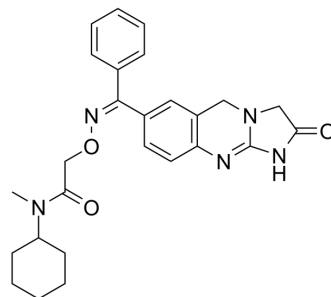


## R 80123

<b>Cat. No.:</b>	HY-100615A		
<b>CAS No.:</b>	133718-30-6		
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>29</sub> N <sub>5</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	459.54		
<b>Target:</b>	Phosphodiesterase (PDE)		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



## BIOLOGICAL ACTIVITY

### Description

R 80123 is the Z-isomer of R 79595, is also a highly selective phosphodiesterase inhibitor. The function is similar to R 80122 (HY-100615, Revizinone). In vivo: The administration of Revizinone improved the haemodynamic profile with an increase in cardiac output, a decrease in systemic vascular resistance and a stable heart rate and mean arterial blood pressure. [1] With regard to reconstitution of contractility and cardiac function Revizinone (E-isomer) is 10 fold more potent than R 79595 and nearly 100 fold more potent than R 80123 (Z-isomer). [2] Revizinone significantly increases global LV function and systolic wall thickening in ischemic areas at doses greater than or equal to 0.16 mg/kg i.v. [3]

## REFERENCES

- [1]. Vandeplassche GM et al. Comparative effects of R 80122, enoximone, and milrinone on left ventricular phosphodiesterase isoenzymes in vitro and on contractility of normal and stunned myocardium in vivo in dogs. *J Cardiovasc Pharmacol.* 1992 May;19(5):714-22. <https://www.ncbi.nlm.nih.gov/pubmed/1381769>
- [2]. Schneider J et al. Cardiac effects of R 79595 and its isomers (R 80122 and R 80123) in an acute heart failure model. A new class of cardiotoxic agents with highly selective phosphodiesterase III inhibitory properties. *Naunyn Schmiedebergs Arch Pharmacol.* 1992 Nov;346(5):563-72.
- [3]. Vandeplassche GM et al. Comparative effects of R 80122, enoximone, and milrinone on left ventricular phosphodiesterase isoenzymes in vitro and on contractility of normal and stunned myocardium in vivo in dogs. *J Cardiovasc Pharmacol.* 1992 May;19(5):714-22.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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