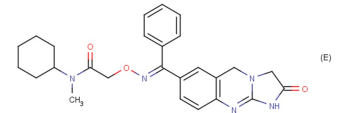


## Data Sheet (Cat.No.T12611L)

Revizinone

### Chemical Properties

CAS No.:	133718-29-3
Formula:	C <sub>26</sub> H <sub>29</sub> N <sub>5</sub> O <sub>3</sub>
Molecular Weight:	459.54
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



### Biological Description

Description	Revizinone is a novel selective phosphodiesterase inhibitor with IC <sub>50</sub> values on this enzyme to 0.036 microM.
Targets(IC <sub>50</sub> )	Others: None
In vitro	Revizinone significantly increased global LV function and systolic wall thickening in ischemic areas at doses greater than or equal to 0.16 mg/kg i.v. The administration of Revizinone improved the hemodynamic profile with an increase in cardiac output, a decrease in systemic vascular resistance, and a stable heart rate and mean arterial blood pressure. With regard to the reconstitution of contractility and cardiac function Revizinone (E-isomer) was 10 fold more potent than R 79595 and nearly 100 fold more potent than R 80123 (Z-isomer) [1] [2] [4].

### Solubility Information

Solubility	DMSO: 4.6 mg/mL (10.01 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.176 mL	10.88 mL	21.761 mL
5 mM	0.435 mL	2.176 mL	4.352 mL
10 mM	0.218 mL	1.088 mL	2.176 mL
50 mM	0.044 mL	0.218 mL	0.435 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Herregods L et al. Haemodynamic effects of R 80122 immediately after cardiopulmonary bypass; preliminary results. *Anaesthesia*. 1994 Aug;49(8):719-22.
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 cardiotonic agents with highly selective phosphodiesterase III inhibitory properties. *Naunyn Schmiedebergs Arch Pharmacol*. 1992 Nov;346(5):563-72.
3. de Cheffoy de Courcelles D et al. Inhibition of human cardiac cyclic AMP-phosphodiesterases by R 80122, a new selective cyclic AMP-phosphodiesterase III inhibitor: a comparison with other cardiotonic compounds. *J Pharmacol Exp Ther*. 1992 Oct;263(1):6-14.
4. 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.

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481