Revizinone

Cat. No.: HY-100615

CAS No.: 133718-29-3

Molecular Formula: $C_{26}H_{29}N_5O_3$

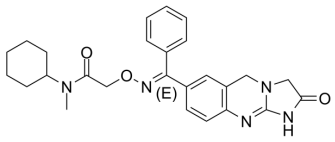
Molecular Weight: 459.54

Target: Phosphodiesterase (PDE)

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 4.6 mg/mL (10.01 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1761 mL	10.8804 mL	21.7609 mL
5 mM	0.4352 mL	2.1761 mL	4.3522 mL
10 mM	0.2176 mL	1.0880 mL	2.1761 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Revizinone is a novel selective phosphodiesterase (PDE) inhibitor with IC50 values on this enzyme to 0.036 microM. target: phosphodiesterase (PDE)[3]; IC 50: 0.036 microM; [3]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) was 10 fold more potent than R 79595 and nearly 100 fold more potent than R 80123 (Z-isomer). [2] 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. [4]

REFERENCES

[1]. Herregods L et al. Haemodynamic effects of R 80122 immediately after cardiopulmonary bypass; preliminary results. Anaesthesia. 1994 Aug;49(8):719-22.

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[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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