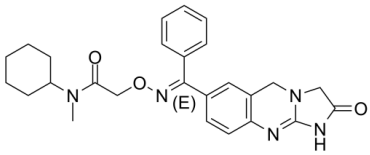
Data Sheet

Product Name:	Revizinone
Cat. No.:	CS-5857
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
Solubility:	DMSO : ≥ 4.6 mg/mL (10.01 mM)



BIOLOGICAL ACTIVITY:

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.

[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.

CAIndexNames:

Acetamide, N-cyclohexyl-N-methyl-2-[[(E)-[phenyl(1,2,3,5-tetrahydro-2-oxoimidazo[2,1-b]quinazolin-7-yl)methylene]amino]oxy]-

SMILES:

O=C(N(C1CCCCC1)C)CO/N=C(C2=CC=CC=C2)/C3=CC4=C(N=C(NC(C5)=O)N5C4)C=C3.[(E)]

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

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