Data Sheet (Cat.No.T13328)



AE0047 Hydrochloride

ties	
116308-56-6	°×°° °×°°
C41H43ClN4O6	
723.26	
no data available	
Powder: -20°C for 3 years In solvent: -80°C for 1 year	\bigcirc
	C41H43ClN4O6 723.26 ••• no data available

Biological Description

Description	AE0047 Hydrochloride is a blocker of calcium, and used in the research of the hypertensive disease.
Targets(IC50)	Calcium Channel
In vitro	AE0047 Hydrochloride (4e) is an antagonist of calcium[1]. AE0047 inhibits [3H]nimodipine binding to rat cardiac membrane homogenate (IC50 of 0.26 nM)[2]. AE0047 (1 μM) inhibits the high K+-evoked vascular smooth muscle contraction, and also inhibits [3H]PN200-110 binding (Ki : 40.9 nM)[3].
In vivo	AE0047 (3 mg/kg) shows antihypertensive effect, and reduces systolic blood pressure(ED30 of 1.1 mg/kg)[2].In aorta isolated from stroke-prone spontaneously hypertensive rats (SHRSP), AE0047 (1 or 3 mg/25g SP diet) inhibits blood pressure elevation and improves endothelium-dependent relaxation in response to acetylcholine

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3826 mL	6.9131 mL	13.8263 mL
5 mM	0.2765 mL	1.3826 mL	2.7653 mL
10 mM	0.1383 mL	0.6913 mL	1.3826 mL
50 mM	0.0277 mL	0.1383 mL	0.2765 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Ashimori A, et al. Novel 1,4-dihydropyridine calcium antagonists. II. Synthesis and antihypertensive activity of 3-[4-(substituted amino)phenylalkyl]ester derivatives. Chem Pharm Bull (Tokyo). 1991 Jan;39(1):91-9.

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