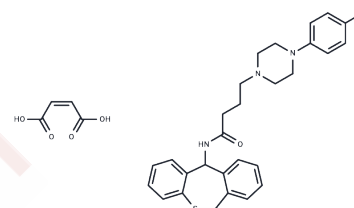


Monatepil maleate

Chemical Properties

CAS No. :	103379-03-9
Formula:	C32H34FN3O5S
Molecular Weight:	591.69
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Monatepil maleate (AJ-2615 maleate) is an orally active Ca ²⁺ -channel and α ₁ -adrenoceptor antagonist and non-competitive heparanoyl-coenzyme A:cholesterol acyltransferase (ACAT) inhibitor with antihypertensive activity. Monatepil maleate is used in studies of hyperlipidemia and atherosclerosis. Monatepil maleate is used to study hyperlipidemia and atherosclerosis.
Targets(IC50)	Calcium Channel, Adrenergic Receptor, Acyltransferase
In vivo	In 8-week-old male Japanese white rabbits (fed with a high cholesterol diet), Monatepil maleate (30 mg/kg; oral administration; once daily for 9 weeks) improved plasma lipid metabolism, reduced atherosclerotic lesions, and lowered blood pressure[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6901 mL	8.4504 mL	16.9007 mL
5 mM	0.338 mL	1.6901 mL	3.3801 mL
10 mM	0.169 mL	0.845 mL	1.6901 mL
50 mM	0.0338 mL	0.169 mL	0.338 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ikeno A, et al. Effects of monatepil maleate, a new Ca²⁺ channel antagonist with alpha1-adrenoceptor antagonistic activity, on cholesterol absorption and catabolism in high cholesterol diet-fed rabbits. *Jpn J Pharmacol.* 1998 Nov;78(3):303-12.

Sumiya T, et al. Inhibitory effect of monatepil maleate on acyl-CoA:cholesterol acyltransferase activity in the liver of cholesterol-fed Japanese monkeys. *Am J Hypertens.* 1997 Jul;10(7 Pt 1):779-85.

Honda Y, et al. Studies on calcium antagonistic and alpha 1-adrenergic receptor blocking activities of monatepil maleate, its metabolites and their enantiomers. *Arzneimittelforschung.* 1995 Oct;45(10):1057-60.

Hayashi K, et al. Inhibition of lipid hydroperoxidation of low density lipoprotein by the Ca(2+)-channel and alpha 1-adrenoceptor antagonist monatepil maleate. *Arzneimittelforschung.* 1996 Apr;46(4):378-81.

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