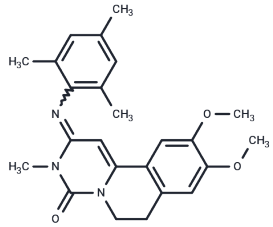
Data Sheet (Cat.No.T23476)

TargetMol

Trequinsin hydrochloride

Chemical Properties



CAS No. : 78416-81-6

Formula: C24H28ClN3O3

Molecular Weight: 441.95

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Trequinsin hydrochloride (HL 725) is a potent phosphodiesterase (PDE) inhibitor and inhibitor of platelet aggregation, and is a novel antihypertensive vasodilator for the study of cardiovascular disease.
Targets(IC50)	Platelet aggregation,PDE
In vitro	In addition to its cardioprotective and antihypertensive effects, Trequinsin hydrochloride exhibits significant antiplatelet activity.Trequinsin hydrochloride is a potent inhibitor of platelet cAMP phosphodiesterase (PDE) with an IC50 of 0.25 nM. [1] In addition, Trequinsin hydrochloride is a potent calcium agonist. [3]

Solubility Information

Solubility	H2O: 40 mg/mL (90.51 mM),Sonication is recommended. DMSO: 50 mg/mL (113.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.53 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2627 mL	11.3135 mL	22.627 mL
5 mM	0.4525 mL	2.2627 mL	4.5254 mL
10 mM	0.2263 mL	1.1313 mL	2.2627 mL
50 mM	0.0453 mL	0.2263 mL	0.4525 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

Ruppert D, et al. HL 725, an extremely potent inhibitor of platelet phosphodiesterase and induced platelet aggregation in vitro. Life Sci. 1982 Nov 8;31(19):2037-43.
Agarwal KC, et al. Role of plasma adenosine in the antiplatelet action of HL 725, a potent inhibitor of cAMP phosphodiesterase: species differences. Thromb Res. 1987 Jul 15;47(2):191-200.
McBrinn RC, et al. Novel pharmacological actions of trequinsin hydrochloride improve human sperm cell motility and function. Br J Pharmacol. 2019 Dec;176(23):4521-4536.

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