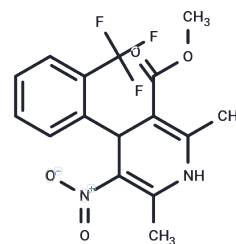


Bay K 8644

Chemical Properties

CAS No. :	71145-03-4
Formula:	C ₁₆ H ₁₅ F ₃ N ₂ O ₄
Molecular Weight:	356.3
Storage:	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	Bay K 8644 (SQ 28,873) is a potent, selective activator of L-type Ca ²⁺ channel with IC ₅₀ of 17.3 nM.
Targets(IC ₅₀)	Calcium Channel
In vitro	Bay K 8644 increases resting tension in segments of mesenteric arteries isolated from young and old rats as an agonist of L-type Ca ²⁺ channel[2]
In vivo	Bay K 8644 induces small contractions in aortae from Wistar-Kyoto(WKY) rats of 5-week-, 3-month-, 1-year-, 1.5-year-old, which are unaltered with age.[3]

Solubility Information

Solubility	DMSO: 83.33 mg/mL (233.88 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble) Ethanol: 35.6 mg/mL (99.92 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: 1 mg/mL (2.81 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8066 mL	14.0331 mL	28.0662 mL
5 mM	0.5613 mL	2.8066 mL	5.6132 mL
10 mM	0.2807 mL	1.4033 mL	2.8066 mL
50 mM	0.0561 mL	0.2807 mL	0.5613 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

A J Gonzales, et al. Br J Pharmacol. 1989, 96(2):333-340

Sulayma A. Albarwani, et al. Front Physiol. 2016, 7:171.

Hernández MC, et al. J Auton Pharmacol. 1995 Aug;15(4):257-69.

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