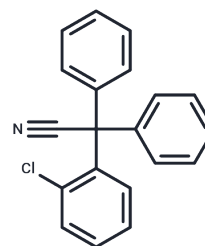


TRAM 39

Chemical Properties

CAS No. :	197525-99-8
Formula:	C ₂₀ H ₁₄ ClN
Molecular Weight:	303.78
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	TRAM 39 (2-Chloro- α,α -diphenylbenzeneacetonitrile) is a selective blocker of intermediate-conductance Ca ²⁺ -activated K ⁺ channels.
Targets(IC50)	Potassium Channel
In vitro	In coeliac neurons, TRAM 39 depressed the amplitude of the prolonged conductance underlying the slow afterhyperpolarization, (gKCa ₂) by 57%[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (164.59 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2919 mL	16.4593 mL	32.9186 mL
5 mM	0.6584 mL	3.2919 mL	6.5837 mL
10 mM	0.3292 mL	1.6459 mL	3.2919 mL
50 mM	0.0658 mL	0.3292 mL	0.6584 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

Davies PJ, Thomas EA, Bornstein JC. Different types of potassium channels underlie the long afterhyperpolarization in guinea-pig sympathetic and enteric neurons. *Auton Neurosci*. 2006 Jan 30;124(1-2):26-30.

Weston AH, et al. Bradykinin-induced, endothelium-dependent responses in porcine coronary arteries: involvement of potassium channel activation and epoxyeicosatrienoic acids. *Br J Pharmacol*. 2005 Jul;145(6):775-84.

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