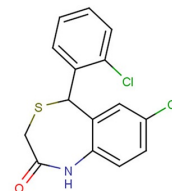


CGP37157

Chemical Properties

CAS No.:	75450-34-9
Formula:	C ₁₅ H ₁₁ Cl ₂ NOS
Molecular Weight:	324.22
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	CGP37157 is an inhibitor of Na ⁺ /Ca ²⁺ exchanger, inhibiting the Na ⁺ -induced Ca ²⁺ -release from guinea-pig heart mitochondria (IC ₅₀ : 0.8 μM).
Targets(IC ₅₀)	Na ⁺ /Ca ²⁺ exchanger: 0.8 μM

Solubility Information

Solubility	DMSO: 125 mg/mL (385.54 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.084 mL	15.422 mL	30.843 mL
5 mM	0.617 mL	3.084 mL	6.169 mL
10 mM	0.308 mL	1.542 mL	3.084 mL
50 mM	0.062 mL	0.308 mL	0.617 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Chiesi M, et al. Structural dependency of the inhibitory action of benzodiazepines and related compounds on the mitochondrial Na⁺-Ca²⁺ exchanger. *Biochem Pharmacol.* 1988 Nov 15;37(22):4399-403.
- Ruiz A, et al. CGP37157, an inhibitor of the mitochondrial Na⁺/Ca²⁺ exchanger, protects neurons from excitotoxicity by blocking voltage-gated Ca²⁺ channels. *Cell Death Dis.* 2014 Apr 10;5:e1156.
- Scherzed A, et al. Effects of salinomycin and CGP37157 on head and neck squamous cell carcinoma cell lines in vitro. *Mol Med Rep.* 2015 Sep;12(3):4455-61.

Inhibitors · Natural Compounds · Compound Libraries

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