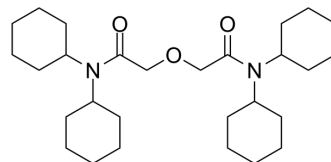


N,N,N',N'-Tetracyclohexyl-3-oxapentanediamide

Cat. No.:	HY-139728		
CAS No.:	74267-27-9		
Molecular Formula:	C ₂₈ H ₄₈ N ₂ O ₃		
Molecular Weight:	460.69		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 2.94 mg/mL (6.38 mM); ultrasonic and warming and heat to 60°C

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1707 mL	10.8533 mL	21.7066 mL
	5 mM	0.4341 mL	2.1707 mL	4.3413 mL
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 0.29 mg/mL (0.63 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 0.29 mg/mL (0.63 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 0.29 mg/mL (0.63 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N,N,N',N'-Tetracyclohexyl-3-oxapentanediamide (Calcium ionophore II) is a lipophilic ionophore that can be used in preparing calcium ion-selective electrode^[1].

In Vitro

Calcium ion-selective electrode can be used to measure the intracellular free calcium^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ma YL, et, al. A study of calcium ion-selective PVC membrane electrode based on neutral carrier N,n',n'-tetracyclo-3-oxapentanediamide (correction of oxapentanediamide). J Tongji Med Univ. 1992;12(2):98-102.

Caution: Product has not been fully validated for medical applications. For research use only.

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