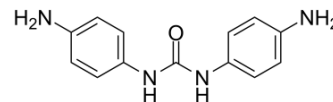


NSC 15364

Cat. No.:	HY-108937		
CAS No.:	4550-72-5		
Molecular Formula:	C ₁₃ H ₁₄ N ₄ O		
Molecular Weight:	242.28		
Target:	VDAC; Apoptosis		
Pathway:	Membrane Transporter/Ion Channel; Apoptosis		
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 : 125 mg/mL (515.93 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
	Preparing Stock Solutions	1 mM	4.1275 mL	20.6373 mL
	5 mM	0.8255 mL	4.1275 mL	8.2549 mL
	10 mM	0.4127 mL	2.0637 mL	4.1275 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (8.59 mM); Suspended solution; Need ultrasonic			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.59 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	NSC 15364 is an inhibitor of VDAC1 oligomerization and apoptosis ^[1] .
In Vitro	Mitochondrial membrane protein voltage-dependent anion channel 1 (VDAC1) oligomerization represents a prime target for agents designed to modulate apoptosis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ben-Hail D, et al. Novel Compounds Targeting the Mitochondrial Protein VDAC1 Inhibit Apoptosis and Protect against Mitochondrial Dysfunction. J Biol Chem. 2016 Nov 25;291(48):24986-25003.

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

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