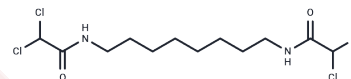


WIN 18446

Chemical Properties

CAS No. : 1477-57-2
 Formula: C₁₂H₂₀Cl₄N₂O₂
 Molecular Weight: 366.11
 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	inhibitor of aldehyde dehydrogenase 1a2 (ALDH1a2)
Targets(IC50)	Dehydrogenase

Solubility Information

Solubility	DMSO: 45 mg/mL (122.91 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: 2 mg/mL (5.46 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	2.7314 mL	13.6571 mL	27.3142 mL
5 mM	0.5463 mL	2.7314 mL	5.4628 mL
10 mM	0.2731 mL	1.3657 mL	2.7314 mL
50 mM	0.0546 mL	0.2731 mL	0.5463 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

Yang L, Liao J, Huang H, et al. Stage-specific regulation of undifferentiated spermatogonia by AKT1S1-mediated AKT-mTORC1 signaling during mouse spermatogenesis. *Developmental Biology*. 2024

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