Diethyl maleate

MedChemExpress

Cat. No.:	HY-Y1147			
CAS No.:	141-05-9			
Molecular Formula:	C ₈ H ₁₂ O ₄			
Molecular Weight:	172.18			
Target:	Biochemical Assay Reagents			
Pathway:	Others			
Storage:	Pure form	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

SOLVENT & SOLUBILITY

In Vitro	Ethanol : ≥ 100 mg/mL (580.79 mM) DMSO : 100 mg/mL (580.79 mM; Need ultrasonic) * "≥" means soluble, but saturation unknown.						
	Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	5.8079 mL	29.0394 mL	58.0788 mL		
		5 mM	1.1616 mL	5.8079 mL	11.6158 mL		
		10 mM	0.5808 mL	2.9039 mL	5.8079 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo		one by one: 10% DMSO >> 40% PEG mg/mL (52.79 mM); Clear solution	6300 >> 5% Tween-8	0 >> 45% saline			

BIOLOGICAL ACTIV	
DIOLOGICALACITY	
Description	Diethyl maleate is a maleate ester resulting from the formal condensation of both carboxy groups of maleic acid with ethanol. Diethyl maleate (DEM), a thiol-reactive α,β-unsaturated carbonyl compound, depletes glutathione (GSH) in
	exposed cells ^[1] .

REFERENCES

[1]. Andrea Gille, et al. Nuclear trapping of inactive FOXO1 by the Nrf2 activator diethyl maleate. Redox Biol. 2019 Jan;20:19-27.

Product Data Sheet

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

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