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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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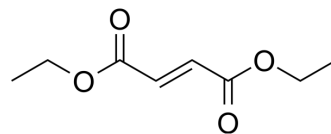
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Diethyl fumarate

Cat. No.:	HY-W010056		
CAS No.:	623-91-6		
Molecular Formula:	C ₈ H ₁₂ O ₄		
Molecular Weight:	172.18		
Target:	Others		
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

DMSO : 140 mg/mL (813.10 mM; Need ultrasonic)
 H₂O : 3 mg/mL (17.42 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (580.79 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 3.5 mg/mL (20.33 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 3.5 mg/mL (20.33 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 3.5 mg/mL (20.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Diethyl fumarate is a decomposition product of Malathion (an insecticide). Diethyl fumarate is a reputed skin irritant. Diethyl fumarate can causes non-immunologic contact urticaria on skin^{[1][2]}.

REFERENCES

- [1]. Jr FA, et, al. Gas chromatographic determination of diethyl fumarate in malathion extracts and preparations used for control of body lice. J Econ Entomol. 1968 Apr;61(2):457-9.
- [2]. Lahti A, et, al. Contact urticaria from diethyl fumarate. Contact Dermatitis. 1985 Mar;12(3):139-40.
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Caution: Product has not been fully validated for medical applications. For research use only.

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