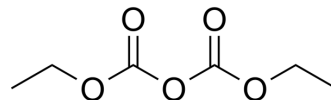


Diethyl pyrocarbonate

Cat. No.:	HY-D0846		
CAS No.:	1609-47-8		
Molecular Formula:	C ₆ H ₁₀ O ₅		
Molecular Weight:	162.14		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (616.75 mM; Need ultrasonic)

H₂O : ≥ 33.33 mg/mL (205.56 mM)

* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	6.1675 mL	30.8375 mL	61.6751 mL
	5 mM	1.2335 mL	6.1675 mL	12.3350 mL
	10 mM	0.6168 mL	3.0838 mL	6.1675 mL

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

BIOLOGICAL ACTIVITY

Description

Diethyl pyrocarbonate is a potent, orally active, non-specific chemical inhibitor of RNase. Diethyl pyrocarbonate has been useful in vitro as an agent relatively specific for binding to imidazole of histidine. Diethyl pyrocarbonate inhibits central chemosensitivity in rabbits. Diethyl pyrocarbonate can modify Ser, Thr, His and Tyr residues. Diethyl pyrocarbonate can be used for modeling^[1].

In Vivo

Diethyl pyrocarbonate (220 mg/kg, i.g., twice a week for 4 weeks) combined with ammonia (42 mg/kg) induces lung tumours in HSL, HSS, Kid: CFLP and Lati: CFLP mice^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. E E Nattie. Diethyl pyrocarbonate (an imidazole binding substance) inhibits rostral VLM CO₂ sensitivity. J Appl Physiol (1985). 1986 Sep;61(3):843-50.

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

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