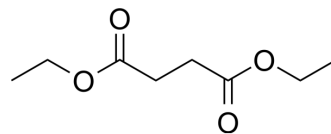


Diethyl succinate

Cat. No.:	HY-Y0836		
CAS No.:	123-25-1		
Molecular Formula:	C ₈ H ₁₄ O ₄		
Molecular Weight:	174.19		
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

DMSO : ≥ 250 mg/mL (1435.21 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.7409 mL	28.7043 mL	57.4086 mL
	5 mM	1.1482 mL	5.7409 mL	11.4817 mL
	10 mM	0.5741 mL	2.8704 mL	5.7409 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.08 mg/mL (11.94 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Diethyl succinate (Diethyl Butanedioate) is used at physiological pH and crosses biological membranes, incorporates into cells in tissue culture and is metabolized by the TCA cycle. Diethyl succinate is known to be non-toxic and used in fragrances and flavoring^[1].

REFERENCES

[1]. Zacharias NM, et al. Real-time molecular imaging of tricarboxylic acid cycle metabolism in vivo by hyperpolarized 1-(13)C diethyl succinate. J Am Chem Soc. 2012 Jan 18;134(2):934-43.

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

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