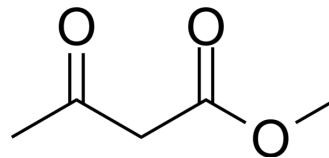


Methyl acetylacetate

Cat. No.:	HY-Y1298		
CAS No.:	105-45-3		
Molecular Formula:	C ₅ H ₈ O ₃		
Molecular Weight:	116.12		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
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 : 100 mg/mL (861.18 mM; Need ultrasonic)
 H₂O : 100 mg/mL (861.18 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	8.6118 mL	43.0589 mL	86.1178 mL
	5 mM	1.7224 mL	8.6118 mL	17.2236 mL
	10 mM	0.8612 mL	4.3059 mL	8.6118 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (21.53 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (21.53 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (21.53 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Methyl acetylacetate is a chemical reagent used in the synthesis of pharmaceuticals for the synthesis of α-substituted acetoacetate and cyclic compounds such as pyrazole, pyrimidine, and coumarin derivatives^[1].

CUSTOMER VALIDATION

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- Front Cell Dev Biol. 2021 Jun 11;9:684393.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Folkendt M M, et al. Gas-phase proton NMR studies of keto-enol tautomerism of acetylacetone, methyl acetoacetate, and ethyl acetoacetate. The Journal of Physical Chemistry, 1985, 89(15): 3347-3352.

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

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