Proteins

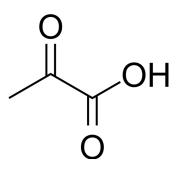
Screening Libraries

Pyruvic acid

Cat. No.: HY-Y0781 CAS No.: 127-17-3 Molecular Formula: $C_3H_4O_3$ Molecular Weight: 88.06

Target: **Endogenous Metabolite** Pathway: Metabolic Enzyme/Protease Storage: 4°C, stored under nitrogen

* In solvent: -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

H₂O: 100 mg/mL (1135.59 mM; Need ultrasonic)

DMSO: $\geq 50 \text{ mg/mL} (567.79 \text{ mM})$

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	11.3559 mL	56.7795 mL	113.5589 mL
	5 mM	2.2712 mL	11.3559 mL	22.7118 mL
	10 mM	1.1356 mL	5.6779 mL	11.3559 mL

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

In Vivo

- 1. Add each solvent one by one: PBS Solubility: 100 mg/mL (1135.59 mM); Clear solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.63 mg/mL (29.87 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: ≥ 2.5 mg/mL (28.39 mM); Clear solution
- 4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (28.39 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Pyruvic acid is an intermediate metabolite in the metabolism of carbohydrates, proteins, and fats.		
IC ₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite	

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CUSTOMER VALIDATION

- Cell Death Dis. 2023 Apr 6;14(4):246.
- Cell Prolif. 2023 Apr 21;e13442.
- Int Immunopharmacol. 2023 May 12;120:110292.

See more customer validations on $\underline{www.MedChemExpress.com}$

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[1]. Kładna A, et al. Reactivity of pyruvic acid and its derivatives towards reactive oxygen species. Luminescence. 2015 Nov;30(7):1153-8.

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

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