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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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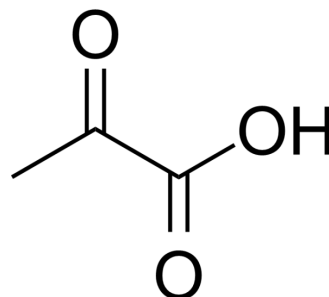
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Pyruvic acid

Cat. No.:	HY-Y0781
CAS No.:	127-17-3
Molecular Formula:	C ₃ H ₄ O 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)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (1135.59 mM; Need ultrasonic)
 DMSO : ≥ 50 mg/mL (567.79 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	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

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (1135.59 mM); Clear solution; Need ultrasonic
- 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
- 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
- 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.

IC₅₀ & Target

Microbial Metabolite

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Cell Death Dis. 2023 Apr 6;14(4):246.
- Cell Prolif. 2023 Apr 21;e13442.
- Int Immunopharmacol. 2023 May 12;120:110292.
- J Virol. 2024 Feb 6:e0175123.

See more customer validations on www.MedChemExpress.com

REFERENCES

[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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