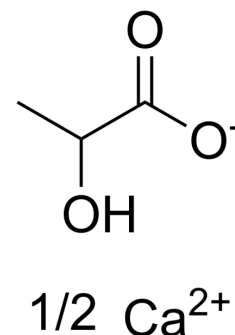


Lactate calcium

Cat. No.:	HY-B2227A		
CAS No.:	814-80-2		
Molecular Formula:	$C_3H_5O_3 \cdot 1/2 Ca$		
Molecular Weight:	110.12		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-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 (908.10 mM; Need ultrasonic)

H₂O : ≥ 50 mg/mL (454.05 mM)

* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		9.0810 mL	45.4050 mL	90.8100 mL
	5 mM		1.8162 mL	9.0810 mL	18.1620 mL
	10 mM		0.9081 mL	4.5405 mL	9.0810 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline

Solubility: ≥ 2.5 mg/mL (22.70 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)

Solubility: ≥ 2.5 mg/mL (22.70 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil

Solubility: ≥ 2.5 mg/mL (22.70 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Lactate (Lactic acid) calcium is used by the beverage industry as a source of calcium to fortify fruit juice. Lactate calcium facilitates the growth and phytic acid degradation of soybean sprouts^{[1][2]}.

CUSTOMER VALIDATION

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- Cell Res. 2023 Jul 13.
 - J Exp Clin Cancer Res. 2024 Mar 5;43(1):68.
 - J Ginseng Res. 2023 Dec 27.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Brooks GA. Lactate: link between glycolytic and oxidative metabolism. Sports Med. 2007;37(4-5):341-3.

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

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