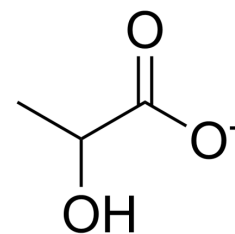


## Lactate calcium

<b>Cat. No.:</b>	HY-B2227A		
<b>CAS No.:</b>	814-80-2		
<b>Molecular Formula:</b>	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub> ·1/2Ca		
<b>Molecular Weight:</b>	110.12		
<b>Target:</b>	Bacterial		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	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)  
 H<sub>2</sub>O : ≥ 50 mg/mL (454.05 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

- 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
- 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
- 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<sup>[1][2]</sup>.

### 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](http://www.MedChemExpress.com)

## REFERENCES

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

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

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