

## Sodium propionate

## Chemical Properties

CAS No. : 137-40-6

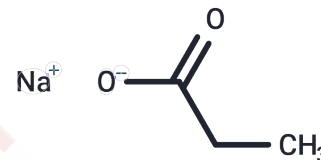
Formula: C<sub>3</sub>H<sub>5</sub>NaO<sub>2</sub>

Molecular Weight: 96.06

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Sodium propionate (Propionic acid sodium salt) has potential anti-inflammatory and anti-apoptotic activities. It inhibits certain signaling pathways and suppresses the invasion of G protein-coupled receptor 41 (GPR41) and GPR43 overexpressing breast cancer cells. Sodium propionate exerts anti-cancer effects on breast cancer xenografts in mice by modulating JAK2/STAT3/ROS/p38 MAPK signaling.
Targets(IC50)	Apoptosis,Others,NF-κB

## Solubility Information

Solubility	H <sub>2</sub> O: 160 mg/mL (1665.63 mM),Sonication is recommended. DMSO: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	10.4102 mL	52.0508 mL	104.1016 mL
5 mM	2.082 mL	10.4102 mL	20.8203 mL
10 mM	1.041 mL	5.2051 mL	10.4102 mL
50 mM	0.2082 mL	1.041 mL	2.082 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Filippone Alessia, et al. The anti-inflammatory and antioxidant effects of sodium propionate. International journal of molecular sciences 21.8 (2020): 3026.

Semaan Josiane, et al. Comparative effect of sodium butyrate and sodium propionate on proliferation, cell cycle and apoptosis in human breast cancer cells MCF-7. Breast Cancer 27 (2020): 696-705.

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