

## Propionic acid potassium salt

## Chemical Properties

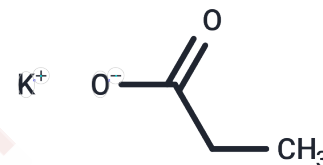
CAS No. : 327-62-8

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

Molecular Weight: 112.17

Storage: Store at RT

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Propionic acid potassium salt is used as a preservative in the food industry and can be employed in research and experiments in the life sciences.
Targets(IC50)	Others
In vitro	Propionic acid potassium salt appears to have beneficial effects on the immune, peripheral, and central nervous systems in patients with multiple sclerosis (MS) (pwMS), demonstrating immunomodulatory, neuroprotective, and neuritogenic effects. These functions are critical because MS is characterized by immune-mediated damage to the myelin sheath in the central nervous system. Therefore, increased levels of propionic acid potassium salt supplementation or through microbiome and dietary manipulation may help counteract the proinflammatory state in MS by directly modulating the immune system and/or reducing the permeability of the gut barrier and the blood-brain barrier. [2]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.915 mL	44.5752 mL	89.1504 mL
5 mM	1.783 mL	8.915 mL	17.8301 mL
10 mM	0.8915 mL	4.4575 mL	8.915 mL
50 mM	0.1783 mL	0.8915 mL	1.783 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

He KY, et al. Akkermansia muciniphila protects the intestine from irradiation-induced injury by secretion of propionic acid. Gut Microbes. 2023 Dec;15(2):2293312.

Lorefice L, et al. Propionic Acid Impact on Multiple Sclerosis: Evidence and Challenges. Nutrients. 2024 Nov 14;16(22):3887.

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