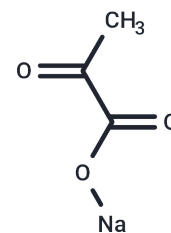


Sodium 2-oxopropanoate

Chemical Properties

CAS No. : 113-24-6
Formula: C₃H₃NaO₃
Molecular Weight: 110.0439
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 2-oxopropanoate (Sodium pyruvate) is a antioxidant potentially used to treatment of chronic obstructive pulmonary disease.
Targets(IC50)	Reactive Oxygen Species,Endogenous Metabolite,ROS
In vivo	Sodium pyruvate nasal spray was effective in attenuating the rhinoconjunctivitis symptoms and reducing the rescue medication use of allergic rhinitis patients[1].
Animal Research	In the pollen season, all the participants were given corticosteroid nasal spray of standard dose for two weeks, and during the next two weeks they were randomized to treatment group (n = 23) taking nasal sodium pyruvate, and control group (n = 30) without sodium pyruvate.?Daily rhinoconjunctivitis symptom score and daily rescue medication score were analyzed.?Also the fraction of exhaled nitric oxide of the upper airway was measured before and after the treatment of sodium pyruvate[1].

Solubility Information

Solubility	DMSO: 1.1 mg/mL (10 mM),Sonication is recommended. H2O: 22.66 mg/mL (205.92 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.0876 mL	45.438 mL	90.876 mL
5 mM	1.8175 mL	9.0876 mL	18.1752 mL
10 mM	0.9088 mL	4.5438 mL	9.0876 mL
50 mM	0.1818 mL	0.9088 mL	1.8175 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

L, S, Li, et al. [Treatment effect of sodium pyruvate nasal spray on allergic rhinitis].*J. Lin chuang er bi yan hou tou jing wai ke za zhi = Journal of clinical otorhinolaryngology, head, and neck surgery*, 2017.

Katharina, Effenberger-Neidnicht, Stephan, et al. Protective Effects of Sodium Pyruvate during Systemic Inflammation Limited to the Correction of Metabolic Acidosis.*J. Inflammation*, 2018.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481