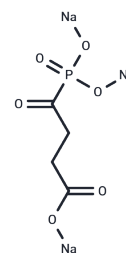


Succinyl phosphonate trisodium salt

Chemical Properties

CAS No. :	864167-45-3
Formula:	C ₄ H ₄ Na ₃ O ₆ P
Molecular Weight:	248.01
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	Succinyl phosphonate trisodium salt is an inhibitor of α -ketoglutarate dehydrogenase (KGDHC).
Targets(IC50)	Reactive Oxygen Species,Endogenous Metabolite,Dehydrogenase,ROS

Solubility Information

Solubility	H ₂ O: 125 mg/mL (504.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0321 mL	20.1605 mL	40.321 mL
5 mM	0.8064 mL	4.0321 mL	8.0642 mL
10 mM	0.4032 mL	2.016 mL	4.0321 mL
50 mM	0.0806 mL	0.4032 mL	0.8064 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

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Zündorf G, et al. alpha-Ketoglutarate dehydrogenase contributes to production of reactive oxygen species in glutamate-stimulated hippocampal neurons in situ. Neuroscience. 2009 Jan 23;158(2):610-6.

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Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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