

Salicylic Acid-D4

Chemical Properties

CAS No. :	78646-17-0
Formula:	C7H2D4O3
Molecular Weight:	142.15
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Salicylic Acid-d4 is a deuterated isotope-labeled derivative of salicylic acid. Salicylic acid is a natural product extracted from willow bark; it is an anti-inflammatory cyclooxygenase inhibitor that inhibits COX-2 activity.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 40 mg/mL (281.39 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	7.0348 mL	35.1741 mL	70.3482 mL
5 mM	1.407 mL	7.0348 mL	14.0696 mL
10 mM	0.7035 mL	3.5174 mL	7.0348 mL
50 mM	0.1407 mL	0.7035 mL	1.407 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

Dhirendra Kumar, et al.Salicylic acid signaling in disease resistance. Plant Sci. 2014 Nov;228:127-34.

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