

Moniliformin sodium salt

Chemical Properties

CAS No. : 71376-34-6

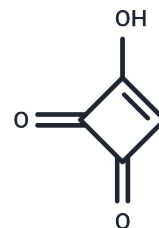
Formula: C₄HNaO₃

Molecular Weight: 120.04

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

Actual storage temperature shall be subject to the COA.

Na



Biological Description

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|---------------|--|
| Description | Moniliformin sodium salt is water-soluble mycotoxin isolate from <i>Fusarium moniliforme</i> . |
| Targets(IC50) | Others,Antibiotic,Antifungal |
| In vitro | Several strains of <i>Fusarium moniliforme</i> produce in laboratory culture more than 800 mg of moniliformin per kg of growth substrate. Monocytes-derived macrophages exposed to moniliformin during the differentiation process present a decrease of endocytosis ability, and a decrease of CD71 and HLA-DR expression[1]. |

Solubility Information

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| Solubility | DMSO: 45 mg/mL (374.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 8.3306 mL | 41.6528 mL | 83.3056 mL |
| 5 mM | 1.6661 mL | 8.3306 mL | 16.6611 mL |
| 10 mM | 0.8331 mL | 4.1653 mL | 8.3306 mL |
| 50 mM | 0.1666 mL | 0.8331 mL | 1.6661 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

Ficheux AS, et al. Effects of beauvericin, enniatin b and moniliformin on human dendritic cells and macrophages: an in vitro study. *Toxicon*. 2013 Sep;71:1-10.

Jonsson M, et al. Repeated dose 28-day oral toxicity study of moniliformin in rats. *Toxicol Lett*. 2015 Feb 17;233(1):38-44.

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