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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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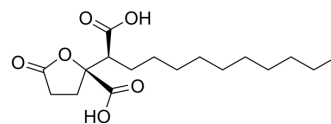
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Spiculisporic acid

| | | | |
|---------------------------|--|-------|---------|
| Cat. No.: | HY-N7078 | | |
| CAS No.: | 469-77-2 | | |
| Molecular Formula: | C ₁₇ H ₂₈ O ₆ | | |
| Molecular Weight: | 328.4 | | |
| Target: | Biochemical Assay Reagents | | |
| Pathway: | Others | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 2 years |
| | | -20°C | 1 year |



SOLVENT & SOLUBILITY

| | | | | | |
|---|---|--------------------------|--------------|------------|------------|
| In Vitro | DMSO : 250 mg/mL (761.27 mM; Need ultrasonic) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 3.0451 mL | 15.2253 mL | 30.4507 mL |
| | | 5 mM | 0.6090 mL | 3.0451 mL | 6.0901 mL |
| 10 mM | | 0.3045 mL | 1.5225 mL | 3.0451 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | <ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.33 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | Spiculisporic acid is a γ-butenolide isolated from the culture of <i>Aspergillus</i> sp ^[1] . Spiculisporic acid is a microbial biosurfactant and has anti-oxidative stress actions ^[2] . |
| In Vitro | Spiculisporic acid is a microbial biosurfactant with a unique long chainfatty acid carrying two carboxylic moieties and a lactonering. Spiculisporic acid is nontoxic in the environment and has anti-oxidative stress actions in biolocal systems by means of the yeast DNA microarray bioassay ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

- [1]. Wang R, et al. Spiculisporic acids B–D, three new γ -butenolide derivatives from a sea urchin-derived fungus *Aspergillus* sp. HDF2. *Molecules*. 2012 Nov 5;17(11):13175-82.
- [2]. Ishigami Y, et al. Molecular and crystal structure of spiculisporic acid and correlation with the surface activity. *J Oleo Sci*. 2013;62(10):795-802.
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Caution: Product has not been fully validated for medical applications. For research use only.

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