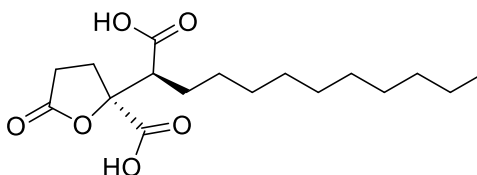


Spiculisporic acid

Code No.: **BIA-S2537**

Pack sizes: **5 mg, 25 mg**



Synonyms : (-)-Spiculisporic acid, NSC 244387

Specifications

CAS #	: 469-77-2
Molecular Formula	: C₁₇H₂₈O₆
Molecular Weight	: 328.4
Source	: <i>Aspergillus</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Spiculisporic acid is a surfactant isolated from *Penicillium minioluteum* and *Penicillium spiculisporum* by Raistrick and Birkinshaw in the early 1930s. Spiculisporic acid is used as a biosurfactant for metal decontamination processes and fine polymer production. Spiculisporic acid removed 58% of cadmium and 89% of lead from model polluted water at pH 7.0 and 4.6, respectively.

References

1. Studies in the biochemistry of micro-organisms: The metabolic products of *Penicillium minio-luteum* Dierckx. Minioluteic acid. Birkinshaw J.H. & Raistrick H. *Biochem J.* 1934, 228, 828-836.
2. Surface active properties of biosoap from spiculisporic acid. Ishigami Y. et al. *J Colloid Interface Sci.* 1983, 94, 131.
3. Removal of cadmium or lead from polluted water by biological amphiphiles. Pekdemir T. et al. *J. Surfactants Detergents* 2000, 3, 43.