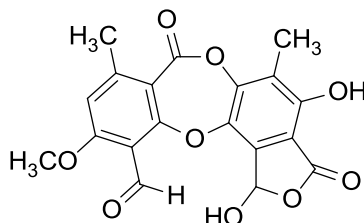


Stictic acid

Code No.: **BIA-S1673**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : NSC 87511; Scopularic acid; Pseudopsoromic acid; Stereocaulonic acid; Stictaic acid

Specifications

CAS #	: 549-06-4
Molecular Formula	: C ₁₉ H ₁₄ O ₉
Molecular Weight	: 386.3
Source	: <i>Xanthoparmelia</i> sp.
Appearance	: Light tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Stictic acid is a β -orchinol depsidone found in a broad range of lichen species. Stictic acid was first isolated and reported by Knop and Schnedermann in 1846, then later isolated as scopularic acid by Zopf in 1907. In the 1930s Asahina and co-workers and Curd and Robertson independently recognised the synonymy. Stictic acid is an important standard in the chemotaxonomy of lichens. Stictic acid exhibits a broad range of pharmacology and has been reported to have antioxidant, antimicrobial, insect anti-feedant and antitumor activities.

References

1. Ueber die Flechten. Knop W. and Schnedermann G., J. Prakt. Chem. 1846, 39, 367.
2. Lichen acids. Part VI. Constituents of Ramalina scopulorum. Curd F.H. and Robertson A., J. Chem. Soc. 1935, 1379-1381.
3. Toxicity and antifeedant activity of lichen compounds against the polyphagous herbivorous insect Spodoptera littoralis. Emmerich R. et al., Phytochem. 1993, 33, 1389.
4. Stictic acid derivatives from the lichen Usnea articulata and their antioxidant activities Lohezic-Le Devehat F. et al., J. Nat. Prod. 2007, 70, 1218.
5. Computational identification of a transiently open L1/S3 pocket for reactivation of mutant p53. Wassman C.D. et al., Nature Commun. 2013, 4, 1407.