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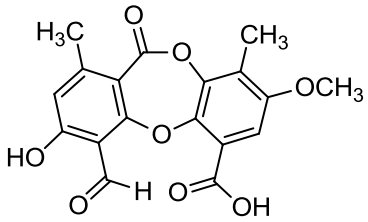
PRODUCT DATA SHEET

Psoromic acid

Code No.: **BIA-P1675**

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



Synonyms : Parellic acid; Sulcatic acid; Sqamaric acid

Specifications

CAS #	:	**7299-11-8**
Molecular Formula	:	**$C_{18}H_{14}O_8$**
Molecular Weight	:	**358.3**
Source	:	***Usnea* sp.**
Appearance	:	**White to off-white solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Psoromic acid is a ß-orcinol depsidone found in a broad range of lichen species, notably within the genera, Usnea, Psoroma and Alectoria. The diverse distribution of psoromic acid makes it an important standard for lichen chemotaxonomy. Although first isolated in the 1880s, the structure was not resolved until the 1930s by Asahina and Shibata. Recently, psoromic acid has been reported as having broad activity as an inhibitor of HIV integrase, RabGGTase and Rab prenylation, and as an antitumor and antimalarial agent.

References

1. Especial compounds of lichens. Shibata S. in Der stoffwechsel sekundarer pflanzenstoffe (The Metabolism of Secondary Plant Products) in Handbuch der Pflanzenphysiologie (Encyclopedia of Plant Physiology) 1958, 10, 560.
2. Psoromic acid is a selective and covalent Rab-prenylation inhibitor targeting autoinhibited RabGGTase. Deraeve C. et al., J. Am Chem. Soc. 2012, 134, 7384.
3. Potential of lichen secondary metabolites against Plasmodium liver ltage parasites with FAS-II as the potential target. Lauinger I.L. et al., J. Nat. Prod. 2013, 76, 1064.
4. Cytotoxic evaluation of phenolic compounds from lichens against melanoma cells. Brandao, L.F.G. et al., Chem. Pharm. Bull. 2013, 61, 176.

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