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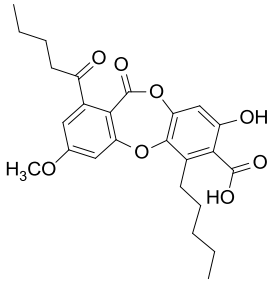
PRODUCT DATA SHEET

Lobaric acid

Code No.: **BIA-L1671**

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



Synonyms : Usnetic acid

Specifications

CAS #	:	**522-53-2**
Molecular Formula	:	**$C_{25}H_{28}O_8$**
Molecular Weight	:	**456.5**
Source	:	***Parmelia* 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

Lobaric acid is a hydrophobic orcinol depsidone found in a broad range of lichen species, notably within the genera, Stereocaulon and Parmelia, first reported by Asahina and Nonamura in 1935. Like many other lichen acids, lobaric acid displays a broad pharmacology. Most recently, lobaric acid was shown to inhibit cysteinyl-leukotriene formation leading to muscle contraction in Taenia coli and type 12(S)-lipoxygenase, and to interfere with protein-protein interactions. Lobaric acid is an important standard in the chemotaxonomy of lichens.

References

1. Untersuchungen uber flechtenstoffe, LVI. Mitteil.: Uber die konstitution der lobarsaure (I. Mitteil.). Asahina Y. and Nonomura S., Ber. Dtsch. Chem. Ges. 1935, 68, 1698.
2. Effect of lobaric acid on cysteinyl-leukotriene formation and contractile activity of guinea pig Taenia coli. Gissurarson S.R. et al., J. Pharmacol. Exp.Therap. 1997, 280, 770.
3. Sekikaic acid and lobaric acid target a dynamic interface of the coactivator CBP/p300. Majmudar C.Y. et al., Angew. Chem. Int. Ed. 2012, 51, 11258.
4. Anti-proliferative lichen compounds with inhibitory activity on 12(S)-HETE production in human platelets. Bucar F. et al., Phytomed. 2004, 11, 602.
5. A catalogue of standardized chromatographic data and biosynthetic relationships for lichen substances. Elix J., 2014, Third Edition. Published by the author, Canberra, Australia.

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Building C, 28-54 Percival Road, Smithfield, NSW 2164, AUSTRALIA

Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com