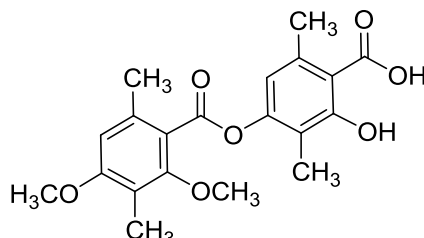


## DiffRACTAIC acid

Code No.: **BIA-D1670**

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



Synonyms : Dirhizonic acid; NSC 5901; NSC 685595

## Specifications

CAS #	: 436-32-8
Molecular Formula	: <b>C<sub>20</sub>H<sub>22</sub>O<sub>7</sub></b>
Molecular Weight	: <b>374.4</b>
Source	: <b>Cladia sp.</b>
Appearance	: <b>Light lemon solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO.</b>

## Application Notes

DiffRACTAIC acid is a  $\beta$ -orcinol depside isolated from a broad range of lichen species. Like other lichen acids, diffRACTAIC acid has been detected as an active in a diverse range of in vitro bioassays and displays complex pharmacology as an analgesic, antipyretic, antimicrobial, plant growth inhibitor, insecticide and antitumor agent. DiffRACTAIC acid is an important standard in the chemotaxonomy of lichens and its occurrence, use and activity are covered in over 100 entries in Scifinder up to 2016.

## References

1. Lichen acids, plant growth inhibitors from *Usnea longissima*. Nishitoba Y. et al., *Phytochem.* 1987, 26, 3181.
2. Usnic acid and diffRACTAIC acid as analgesic and antipyretic components of *Usnea diffracta*. Okuyama E. et al., *Planta Med.* 1995, 61, 113.
3. Depsides as non-redox inhibitors of leukotriene B4 biosynthesis and HaCaT cell growth. 1. Novel analogues of barbatic and diffRACTAIC acid. Kumar K.C.S. and Muller K., *Europ. J. Med. Chem.* 1999, 34, 405.
4. A catalogue of standardized chromatographic data and biosynthetic relationships for lichen substances. Elix J., 2014, Third Edition. Published by the author, Canberra, Australia.