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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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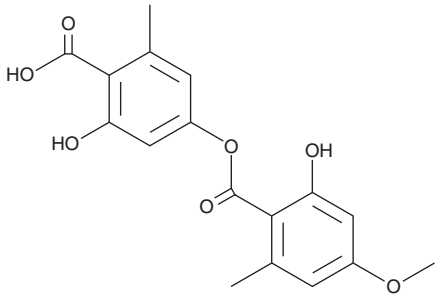
# PRODUCT INFORMATION

## Evernic Acid

*Item No. 17430*

| | |
|---|---|
| **CAS Registry No.:** | 537-09-7 |
| **Formal Name:** | 2-hydroxy-4-[(2-hydroxy-4-methoxy-6-methylbenzoyl)oxy]-6-methyl-benzoic acid |
| **Synonym:** | NSC 81164 |
| **MF:** | $C_{17}H_{16}O_7$ |
| **FW:** | 332.3 |
| **Purity:** | ≥98% |
| **UV/Vis.:** | $\lambda_{max}$: 213, 269, 306 nm |
| **Supplied as:** | A crystalline solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

Evernic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the evernic acid in the solvent of choice, which should be purged with an inert gas. Evernic acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of evernic acid in ethanol is approximately 0.5 mg/ml and approximately 10 mg/ml in DMSO and DMF.

Evernic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, evernic acid should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Evernic acid has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Evernic acid is a secondary metabolite produced by some species of lichen that can bind to allosteric sites on the protein surface of FAS-II enzymes and produce antibacterial and antiplasmodial effects.[1] It inhibits two key plasmodial FAS-II enzymes *Pf*FabZ and *Pf*FabI ($IC_{50}$ = 10.7 and 36.1 µM, respectively) but shows low efficacy against the malaria parasite *P. berghei* ($IC_{50}$ = 77.3 µM).[1]

### Reference


1. Lauinger, I.L., Vivas, L., Perozzo, R., *et al.* Potential of lichen secondary metabolites against *Plasmodium* liver stage parasites with FAS-II as the potential target. *J. Nat. Prod.* **76(6)**, 1064-1070 (2013).





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