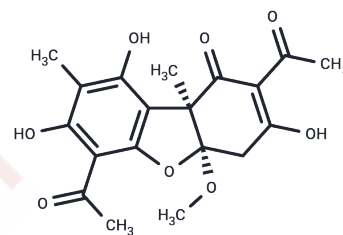


## (-)-Mycousnine

## Chemical Properties

CAS No. :	77480-55-8
Formula:	C <sub>19</sub> H <sub>20</sub> O <sub>8</sub>
Molecular Weight:	376.36
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	(-)-Mycousnine is a microbial metabolite and derivative of usnic acid originally isolated from <i>M. nawaetha</i> that has antibacterial and antifungal activities. <sup>1,2</sup> It is active against the Gram-positive bacteria <i>B. subtilis</i> , <i>K. rhizophila</i> , and <i>S. aureus</i> (MICs = 4, 8, and 4 g/ml, respectively) but not the Gram-negative bacteria <i>E. coli</i> , <i>S. typhimurium</i> , and <i>K. pneumoniae</i> (MICs = >128 g/ml for all). <sup>2</sup> (-)-Mycousnine is also active against the fungi <i>T. mentagrophytes</i> , <i>T. rubrum</i> , and <i>C. albicans</i> (MICs = 25, 25, and 100 µg/ml, respectively). <sup>1</sup>
Targets(IC50)	Others, Antifungal

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.657 mL	13.2852 mL	26.5703 mL
5 mM	0.5314 mL	2.657 mL	5.3141 mL
10 mM	0.2657 mL	1.3285 mL	2.657 mL
50 mM	0.0531 mL	0.2657 mL	0.5314 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Sassa, T., and Igarashi, M. Structures of (-)-mycousnine, (+)-isomycousnine and (+)-oxymycousnine, new usnic acid derivatives from phytopathogenic *Mycosphaerella nawae* Agric. Biol. Chem. 54(9)2231-2237(1990)
- Lee, J., Lee, J., Kim, G.J., et al. Mycousfurans A and B, antibacterial usnic acid congeners from the fungus *Mycosphaerella* sp., isolated from a marine sediment Mar. Drugs 17(7)422(2019)

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