

## Ombuoside

## Chemical Properties

CAS No.:	20188-85-6
Formula:	C <sub>29</sub> H <sub>34</sub> O <sub>16</sub>
Molecular Weight:	638.6
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Ombuoside has antifungal activity. Ombuoside shows significant antioxidant activity in the DPPH, and TEAC, reducing power assays.
Targets(IC <sub>50</sub> )	Antifection: None
In vitro	Ombuoside and the synthetic derivatives octa-acetylOmbuoside, ombuine and retusine were tested for antimicrobial activity against several strains of Gram-positive and Gram-negative bacteria and the yeast <i>Candida albicans</i> , using the agar diffusion method. The flavonol glycoside Ombuoside and the respective aglycone ombuine, both exhibited moderated activity against <i>Corynebacterium diphtheria</i> , <i>Staphylococcus aureus</i> , <i>Escherichia coli</i> and <i>Candida albicans</i> . To a lesser degree, octaacetylOmbuoside and retusine showed activity against the Gram-positive bacteria <i>C. diphtheria</i> and <i>S. aureus</i> , but proved to be inactive against Gram-negative bacteria and <i>Candida albicans</i> [1]

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.566 mL	7.83 mL	15.659 mL
5 mM	0.313 mL	1.566 mL	3.132 mL
10 mM	0.157 mL	0.783 mL	1.566 mL
50 mM	0.031 mL	0.157 mL	0.313 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Isolation, identification and antimicrobial activity of ombuoside from *Stevia triflora*. Ann Pharm Fr. 1997;55(6):262-8.

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