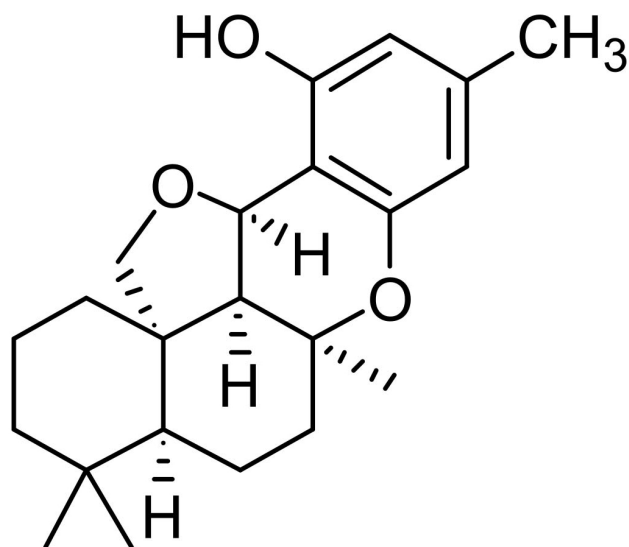


## Siccanin

Code No.: BIA-S1421

Pack sizes.: 1mg, 5mg



Synonyms:  
CS 280, SI 23548

## Specifications

CAS #	: <b>22733-60-4</b>
Molecular Formula	: <b>C22H30O3</b>
Molecular Weight	: <b>342.5</b>
Source	: -
Appearance	: <b>White solid</b>
Purity	: <b>&gt;98% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</b>

## Application Notes

Siccanin is an unusual fused phenolic pentacycle first isolated from *Helminthosporium siccans* and reported in 1962 as a potent antifungal agent. Siccanin inhibits succinate dehydrogenase in the terminal electron transport system. More recent studies note the proximity of the siccanin binding site to the quinone-binding site of the enzyme. Species-selective inhibition by siccanin is unique among succinate dehydrogenase inhibitors and offers a lead for new chemotherapeutics.

## References

1. Studies on antibiotics from *Helminthosporium* sp. fungi. VII Siccanin, a new antifungal antibiotic produced by *Helminthosporium siccans*. Ishibashi K. J. Antibiot. Series A 1962, 15, 161.

2. Mode of action of the antibiotic siccanin on intact cells and mitochondria of Trichophyton mentagrophytes. Nose K. & Endo A. J. *Bacteriol.* 1971, 105, 176.
3. Siccanin rediscovered as a species-selective succinate dehydrogenase inhibitor. Mogi T.J. et al., *Biochem.* 2009, 146, 383.