

Product Name:	Siccanin
Product Number:	S082
CAS Number:	22733-60-4
Molecular Formula:	C ₂₂ H ₃₀ O ₃
Molecular Weight:	342.5
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>Siccanin is an unusual fused phenolic pentacycle first isolated from <i>Helminthosporium siccans</i> 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.</p> <p>Siccanin is soluble in ethanol, methanol, DMF and DMSO.</p>
Mechanism of Action:	Siccanin inhibits succinate dehydrogenase in the terminal electron transport system.
References:	<p>Studies on antibiotics from <i>Helminthosporium</i> sp. fungi. VII Siccanin, a new antifungal antibiotic produced by <i>Helminthosporium siccans</i>. Ishibashi K. J. Antibiot. Series A 1962, 15, 161.</p> <p>Mode of action of the antibiotic siccanin on intact cells and mitochondria of <i>Trichophyton mentagrophytes</i>. Nose K. & Endo A. J. Bacteriol. 1971, 105, 176.</p> <p>Siccanin rediscovered as a species-selective succinate dehydrogenase inhibitor. Mogi T.J. et al. Biochem. 2009, 146, 383.</p>