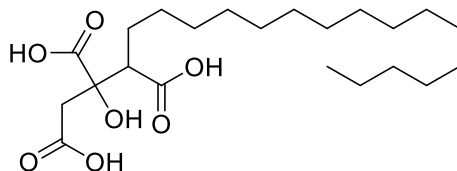


Agaric acid

Code No.: **BIA-A2596**

Pack sizes: **25 mg, 100 mg**



Synonyms : Agaric acid, Agaricin, Agaricinic acid, Laricic acid, NSC 60429, NSC 65690, α -Cetylcitric acid

Specifications

CAS #	: 666-99-9
Molecular Formula	: C₂₂H₄₀O₇
Molecular Weight	: 416.55
Source	: <i>Polyporus sp.</i>
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Agaric acid is an adenine nucleotide translocase antagonist which induces mitochondrial permeability, promoting efflux of accumulated Ca²⁺, collapse of transmembrane potential, and mitochondrial swelling. Agaric acid has been used historically to inhibit sweating. Agaric acid inhibits both motility and biofilm formation in *Salmonella Typhimurium*.

References

1. A new inhibitor of adenine nucleotide translocase in mitochondria: agaric acid. Chavez E. and Klapp M. *Biochem. Biophys. Res. Comm.* 1975, 67, 272.
2. Agaric acid induces mitochondrial permeability transition through its interaction with the adenine nucleotide translocase. Its dependence on membrane fluidity. Garcia N. et al. *Mitochondrion* 2005, 5, 272.
3. The mechanism of sweat production by agaric acid. Hattori K. *Berichte ueber die Gesamte Physiologie und Experimentelle Pharmakologie* 1934, 86, 671.
4. Agaric acid reduces *Salmonella* biofilm formation by inhibiting flagellar motility. Lories B. et al. *Biofilm* 2020, 2, 100022.