

A new cytotoxic agent from solid-state fermented mycelium of *Antrodia camphorata*.

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Abstract

Antroquinonol (1), an ubiquinone derivative, was isolated from the solid-state fermented mycelium of *Antrodia camphorata* (Polyporaceae, Aphyllophorales), a parasitic fungus indigenous to Taiwan. The structure of compound 1 was elucidated by the analysis of their spectroscopic data. Its cytotoxic activities were evaluated against MCF-7, MDA-MB-231 (human breast carcinoma), Hep3B, HepG2 (human liver carcinoma) and DU-145, LNCaP (human prostate carcinoma) cell lines, and the IC₅₀ values ranged from 0.13 +/- 0.02 to 6.09 +/- 0.07 microM.