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# Antroquinonol Capsule

National Cancer Institute

## Source

National Cancer Institute. *Antroquinonol Capsule*. NCI Thesaurus. Code C119701.

An orally available capsule containing antroquinonol, a farnesylated quinone derivative isolated from the mycelium of *Antrodia camphorata*, with potential antineoplastic activity. Upon oral administration, antroquinonol binds to and inhibits protein prenylation mediated by the enzymes farnesyltransferase (FTase) and geranylgeranyltransferase 1 (GGTase-1). This prevents both post-translational prenylation and signaling activity of a number of Ras superfamily proteins, such as Ras and Rho. This results in the inhibition of downstream signaling, such as the PI3K/mTOR signaling pathway, and induces apoptosis in susceptible tumor cells. Ras superfamily proteins are overexpressed in numerous cancer cell types, and play a key role in tumor cell proliferation and survival.