

Open Peer Review on Qeios

## Mitoguazone

National Cancer Institute

## Source

National Cancer Institute. <u>Mitoguazone</u>. NCI Thesaurus. Code C661.

A guanylhydrazone with potential antineoplastic activity. Mitoguazone competitively inhibits S-adenosyl-L-methionine decarboxylase (SAMD), an enzyme involved in the synthesis of polyamines, resulting in decreased proliferation of tumor cells, antimitochondrial effects, and p53-independent apoptosis. Polyamines, specifically spermine and spermidine, are essential for thymidine kinase production, DNA synthesis, and cell proliferation. (NCI04)

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