Lonidamine inhibits glycolysis by inhibiting hexokinases; it exhibits anti-aging, anti-parasitic, and anti-fertility activities. Lonidamine increases lifespan in *Caenorhabditis elegans*, increasing stress resistance and promoting mitochondrial respiration by increasing levels of ROS. Lonidamine also displays antibiotic activity, causing death in *Trypanosoma*. In vivo, lonidamine increases testes weight and decreases sperm count and testosterone levels.

**References**


