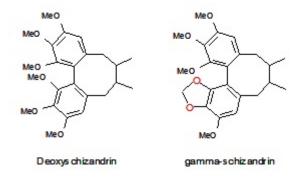
Drug Status Report

Drug: Schizandrae chinensis

Drug Name Status: Schizandrae chinensis is the common name.

Schizandrae chinensis is a plant that has been used in traditional Chinese medicine (TCM) to treat a variety of medical conditions including sleep disturbance and insomnia, chronic cough, diarrhea, irritability, night sweats and palpitations¹.

A number of bioactive lignans have been isolated from *Schizandrae chinensis* and are believed to provide the observed pharmacological effects of the plant. For example, a family of dibenzo[a,c] cyclooctene derivatives, known as the Schizandrins, were identified in the fruit of *Schizandra chinensis* and shown to induce hepatic microsomal cytochrome P-450 thereby increasing liver anabolic metabolism, as well as exhibited cancer and anti-mutagenic potential². More recently, Schizandrin A and γ -schizandrin were found to induce apoptosis³ and this was postulated as the mechanism by which these lignans suppresses the proliferation of cancer cells.



Canadian Status: *Schizandrae chinensis* does not contain any substances similar to those listed on the schedules to the CDSA.

Recommendation: *Schizandrae chinensis* is not included in any of the Schedules to the CDSA and is not a controlled substance.

January 13th 2010.

¹Thorne Research Inc. (2002) Schizandrae chinensis, Alternative Medicine Review Monographs, p382-383. Available online from

http://www.thorne.com/media/alternative medicine review/monographs/Schizandrae Mono.pdf

²Liu K-T., et al. (1982) Pharmacological properties of dibenzo[a,c]cyclooctene derivatives isolated from Fructus Schizandrae chinensis II. Induction of phenobarbital-like hepatic monoxygenases. Chem. Biol. Interactions. **39:**315-330.

³Lin S. *et al* (2008) Molecular mechanism of apoptosis induced by Schizandrae-derived lignans in human leukemia HL-60 cells. Food and Chem. Toxicol. 46:590-597.