Cyclopamine is a steroidal jerveratrum alkaloid found in Veratrum that binds Smo, inhibiting hedgehog (Shh) signaling pathways. Cyclopamine exhibits anticancer activity, decreases expression of Gli2 and Bcl-2, inhibiting proliferation and inducing apoptosis in adenoma cells and neuroblastoma cells.

Solubility: Ethanol is the best cyclopamine solvent for biological use. A 2.8% solution (28 mg/mL) can be prepared by sonicating the cyclopamine in ethanol. Avoid over heating. Storage at -20 ºC is recommended. If cyclopamine crystallizes out of solution: upon thawing, the mixture can be heated or sonicated again to redissolve the cyclopamine. Methanol and DMSO can also be used as cyclopamine solvents, but solubility in methanol is much less (0.7 mg/mL). Substantial heating is again needed to achieve solution with methanol or DMSO.

References
