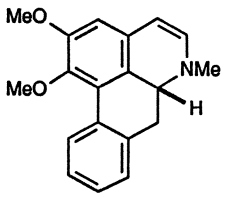
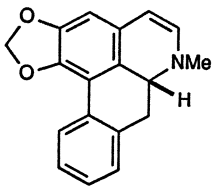
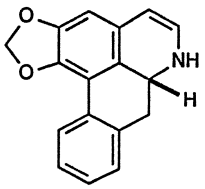


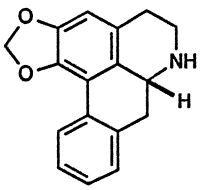
Dehydronuciferine (*89-4*)



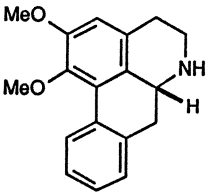
Dehydroremerine (*89-5*)



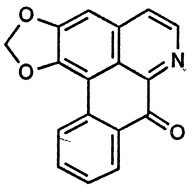
Dehydroanonaine (*89-6*)



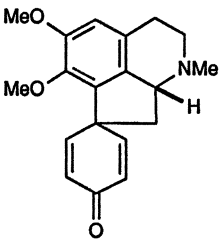
Anonaine (*89-7*)



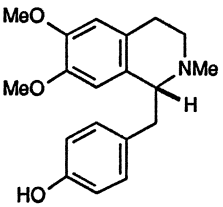
N-Nornuciferine (*89-8*)



Liriodenine (*89-9*)



Pronuciferine (*89-10*)



Armepavine (*89-11*)

Furthermore, the alkaloids armepavine (*89-11*) [4, 5], anonaine (*89-7*), pronuciferine (*89-10*), *N*-nornuciferine (*89-8*), liriodenine (*89-9*), methylcoclaurine [6], dehydroremerine (*89-5*), dehydronuciferine (*89-4*), dehydroanonaine (*89-6*), and *N*-methyl- coclaurine [7] were isolated. Armepavine is an alkaloid of the 1-benzylisoquinoline type; remerine, nuciferine, nornuciferine, anonaine, liriodenine are all aporphine-type alkaloids, whereas pronuciferine is a proaporphine-type alkaloid, which can be converted into nuciferine by treatment with acid after reduction (Fig. 89.1) [8].

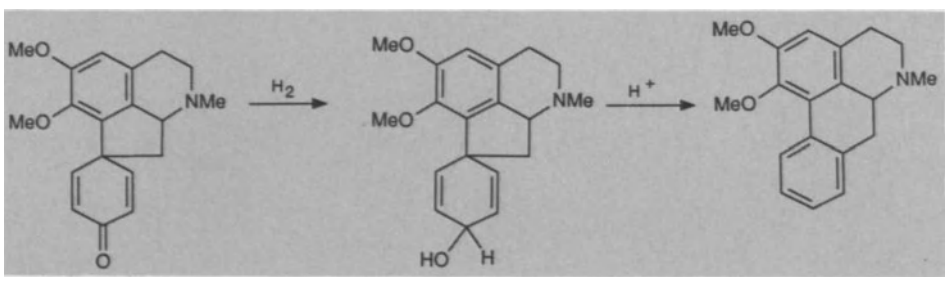


Fig. 89.1. Conversion of pronuciferine into nuciferine