

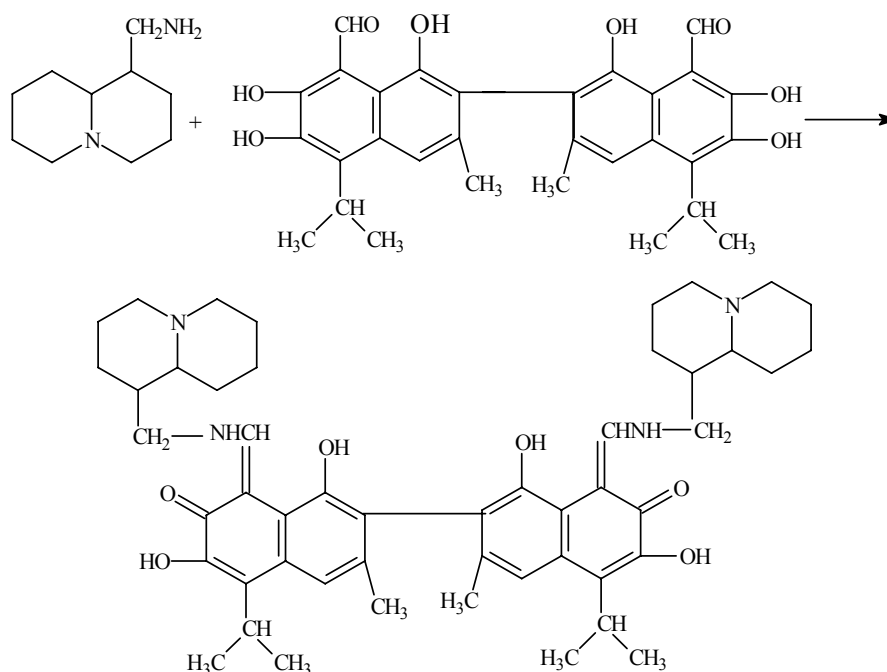
Synthesis and Anti-HIV Activity of Bis-2,2'-{[(7,7',8,8'-tetrahydro-1,1', 6,6'-5,5'-diisopropyl-3,3, dimethyl-7,7-dioxy)-2,2'-dinaphmyl]-8,8'-methyleneimino}lupinine

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(-)-Lupinine is a quinolizidine alkaloid which can be obtained either from several *Lupinus* species (Leguminosae) or *Anabasis aphylla* L. (Chenopodiaceae) in enantiomerically pure form [1].

The derivatives of lupinine have been synthesized on the scheme:



The structures lupinine derivatives was checked by analytical and NMR, MS spectroscopy.

Anti-HIV activity of the derivative lupinine were determined under the program Developmental Therapeutics of National Cancer Institute, USA [2]. The In Vitro testing was carried out against CEM-SS at concentration $6.02 \cdot 10^{-6}$ – $1.58 \cdot 10^{-8}$.

The derivatives of lupinine having possess anti-HIV activity.

1. Wink.M. Methods in Plant Biochemistry, 8 (1993), 197-239
2. Weislow.O.W, Kiser.R, Fine. D.Bader, J, Shoemaker, R.H.,Boyd M.R. New soluble-formazan assay for HIV-1 cytopathic effects; application to high-flux screening of Synthetic and natural products for AIDS-antiviral activity J. Nat. Cancer Inst 81: 577-586, 1989