Supplementary Material

Synthesis and biological activity of novel bifunctional isoxazolidinyl polycyclic aromatic hydrocarbons

Antonio Rescifina,^{a,*} Chiara Zagni,^a Giovanni Romeo^b and Salvatore Sortino^{a,*}

^aDipartimento di Scienze del Farmaco, Università di Catania, Viale Andrea Doria 6, Catania 95125, Italy ^bDipartimento Farmaco-Chimico, Università di Messina, Viale SS. Annunziata, Messina 98168, Italy

NOE assignments for compounds 1

For *cis* compound **1a**, irradiation of H_5 gave a small enhancement of H_3 (0.7%) that directly prove the stereochemical arrangement. For *trans* compound **1b**, irradiation of H_5 produced an enhancement of only H_{4a} (3.7%) whereas irradiation of H_3 produced a good enhancement of only H_{4b} (7.2%). Conversely, irradiation of H_{4a} and H_{4b} gives rise to positive NOE effects for H_5 (7.7%) and H_3 (8.6%), respectively.



Figure. S1. Selected NOEs for compounds 1a,b.

0.1 1 10 20 30 40

Unwinding assay

Figure. S2. Inhibition of topoisomerase I-induced DNA relaxation by compound 1a at 0.1, 1, 10, 20, 30 and 40 µM.

^{*} Corresponding author. Tel.: +39 095 7385014; Fax: +39 06 233208980.

e-mail address: arescifina@unict.it (A. Rescifina).