



spongistatin 1 R = Cl, R¹ = R² = Ac
 spongistatin 2 R = H, R¹ = R² = Ac
 spongistatin 3 R = Cl, R¹ = H, R² = Ac

spongistatin 5 R = Cl
 spongistatin 7 R = H

Figure 6. The structures of spongistatins 1-7. The compounds were comparatively evaluated in the NCI in vitro screen (Table 1).

Table 1. Results of Antitumor Evaluations of Spongistatins 1-7 in the NCI In Vitro Primary Screen*

Spongistatin number ^a	Mean panel GI ₅₀ (nM) ^b	COMPARE correlation coefficient ^c
1	0.1	1.00
2	0.9	0.83
3	0.8	0.90
4	0.1	0.93
5	0.1	0.92
6	1.1	0.86
7	1.0	0.81

* Data are from Pettit et al. [1993a,b,c,d].

^aSee Figure 6.

^bAll compounds were tested in quadruplicate at five different concentrations (10⁻⁹, 10⁻⁹, 10⁻¹⁰, 10⁻¹¹, and 10⁻¹² M) against the entire panel of 60 human tumor cell lines comprising the NCI screen.

^cCorrelation coefficients from the COMPARE pattern-recognition algorithm were calculated by computer using the TGI mean-graph profiles of differential cellular sensitivities to the compounds. The TGI mean-graph profile of spongistatin 1 was used as the benchmark or "seed" for the comparisons.