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**Effects of 3,3'-Dihydroxy- α,β -diethylstilbene and 3,3',4,5'-
Tetrahydroxystilbene on Microtubule Assembly
in vitro, Aneuploidy Induction,
and Cellular Microtubule
and Actin Networks***

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We examined the inhibitory activities of 3,3'-dihydroxy- α,β -diethylstilbene (DDS) and 3,3',4,5'-tetrahydroxystilbene (THS) on microtubule assembly in vitro and their effects on chromosome number and cellular microtubule networks in Chinese hamster V79 cells. DDS showed half the inhibitory activity of diethylstilbestrol (DES) on microtubule assembly *in vitro*, while THS had none of the inhibitory activity. DDS induced tetraploid at 30 μM , whereas THS was found to be inactive. Furthermore, DDS disturbed cellular microtubule networks at 100 μM .

We also examined the effects of DES, DDS and THS on cellular actin networks in mouse BALB 3T3 cells. DES induced a change of actin stress fiber distribution and THS had similar activity, while DDS showed no activity.

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