Other bioactive products
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Synthesis, Biological Evaluation, and Docking Studies of Gigantol Analogues as Calmodulin Inhibitors. — Diphenylmethanes (II), diphenylethanes (VI) and (VIII), diphenylpropenones (XI), and diphenylpropanes (XII), are synthesized by simple methods in moderate to good yields. Although the mode of action responsible for the affinity of these compounds to CaM is not clear yet, some of them display better affinity for the protein than gigantol and a reference compound. Compounds possessing hydrophobic substituents show the best affinity for the complex Ca^{2+}-CaM and better inhibitory effect of the complex Ca^{2+}-CaM-PDE1. In most cases the better affinity for the protein correlates with the inhibitory effect of the enzyme activity. The most relevant compounds are diphenylethane (VIb), chalcones (XIc), (XId), and diphenylpropane (XIIa). — (REYES-RAMIREZ*, A.; LEYTE-LUGO, M.; FIGUEROA, M.; SERRANO-ALBA, T.; GONZALEZ-ANDRADE, M.; MATA, R.; Eur. J. Med. Chem. 46 (2011) 7, 2699-2708, http://dx.doi.org/10.1016/j.ejmech.2011.03.057 ; Fac. Estud. Super. Zaragoza, Univ. Nac. Auton. Mex., 04510 Mexico, Mex.; Eng.) — H. Hoennerscheid