Design and synthesis and biological evaluation of novel curcumin analogs with anticipated anticancer activity.Iten M. Fawzy1, Khairia M. Youssef¬¬1, Nasser S. M. Ismail2, J. Gullbo3 and Khaled A. M. Abouzid. Al- Azhar University Magazine for Pharmaceutical Publications- July 2013.

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Abstract

Analogs Ia-g, IIa-d, IIIa-d and IVa-e represent four different series of compounds designed and synthesized with 3,5-dibenzylidenepiperidin-4-one core moiety. Results: Compounds showed interaction energy comparable to or within the range of podophyllotoxin itself when docked into the colchicine binding site of tubulin using the podophyllotoxin-tubulin complex (PDB 1SA1).

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