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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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