

Title (en)
METHOD OF DESIGNING TUBULIN POLYMERIZATION STABILIZERS

Title (de)
VERFAHREN ZUM ENTWURF VON TUBULIN POLYMERISATION STABILISATOREN

Title (fr)
CONCEPTION DE STABILISATEURS DE POLYMERISATION DE LA TUBULINE

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Abstract (en)
[origin: WO0105779A2] A method for designing paclitaxel alternative compounds which stabilize the tubulin polymerization process has been found. These compounds in solution possess steric conformational properties of natural paclitaxel and are capable of binding to the tubulin protein at the same site where paclitaxel is known to bind. The compounds of the present invention stabilize tubulin polymerization in a way that is mechanistically equivalent to activity mechanism of paclitaxel. The compounds of the present invention have increased solubility, simpler synthesis, and the possibility for specificity and optimization due to the combinatorial reactions over natural paclitaxel.

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