Total Synthesis of Englerin A

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Antoinette Nibbs Short Literature Presentation 18 May 2010



Renal Cell Carcinoma

•east African plant *Phyllanthus engleri*

•high selectivity and activity against renal cancer cells GI₅₀ values from 1-87nM

•when tested against other cancer cell lines, only moderate inhibition activity GI_{50} 10-20 μM

kidney cancer is a major cause of morbidity and mortality in adults



•active component isolated and structure elucidated except for absolute configuration (Beutler and coworkers, 2009)

Willot, M.; Radtke, L.; Konning, D.; Frohlich, R.; Gessner, V.; Strohmann, C.; Christmann, M. Angew, Chem, Int. Ed. **2009**, 48, 9105-9108





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