



New chiral Mannich adducts of di-*tert*-butylphenols and a bicyclic imine : synthesis and antiproliferative activity.

Autorzy

Jakub Iwanejko

Elżbieta Wojaczyńska

Justyna Trynda

Magdalena Maciejewska

Joanna Wietrzyk

Andrzej Kochel

Jacek Wojaczyński

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Tests of antiproliferative activity of Mannich adducts of aromatic nucleophiles and a chiral bicyclic imine revealed a di-*tert*-butylphenol derivative as a promising compound for further exploration. To study the influence of substitution pattern and a configuration of stereogenic centers on the inhibition of cancer cell growth, a series of Mannich bases were obtained with a good to high diastereoselectivity from the reaction of the imine and three isomeric di-*tert*-butylphenols. Six new enantiopure adducts were isolated and fully characterized. Selected derivatives were shown to exhibit an interesting antiproliferative activity comparable to cisplatin.

Słowa kluczowe

antiproliferative activity, imines, Mannich bases, Mannich reaction, Stereoselectivity

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