



ISTITUTO ITALIANO
DI TECNOLOGIA

TITLE

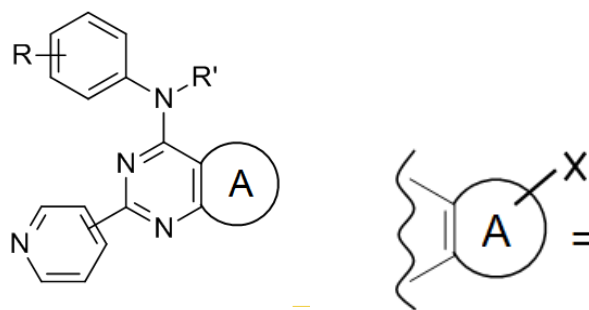
4-amino-2-pyrido-bicyclo pyrimidine e loro uso come medicinali

INVENTORS

Marco De Vivo, Jose Ortega, Jose Arencibia, Anna Minarini, Claudia Sissi

DESCRIPTION

The invention relates to compounds (i.e. 4-amino-pyrido[4,3-d]pyrimidine and 4-amino-quinazoline derivatives, collectively termed 4-amino-2-Pyrido bicyclic pyrimidines) that inhibit human type II topoisomerase (topoII) enzyme. Pharmacological inhibition of topoII can be used to treat a variety of pathophysiological conditions, especially cancer. The here proposed 4-amino-2-Pyrido bicyclic pyrimidines are potent inhibitors towards topoII and, at the same time, these compounds show promising results in blocking the proliferation of cancer cells. Moreover, the 4-amino-2-Pyrido bicyclic pyrimidine scaffold is very drug-like and allows great chemical diversity, for this reason this series of compounds could constitute a highly promising foundation for further drug development.



APPLICATIONS

Drugs, anti-cancer, chemotherapeutics

KEYWORDS

Human type II topoisomerase, Topo II, fused pyrimidines, anticancer drugs, chemotherapeutics

BIBLIOGRAPHIC DATA

4-amino-2-pyrido bicyclic pyrimidines as type II topoisomerase inhibitors and their use as medicinali

Application Number	IT 102016000130706
Priority Date	December 23, 2016
Applicants	Fondazione Istituto Italiano di Tecnologia, Università degli studi di Bologna, Università degli studi di Padova

CONTACTS

Technology Transfer Office	Augusta Galano	Augusta.galano@iit.it
		+39 010 71781 568