**TITLE**

4 amino-2-pirido-biciclo pirimidine e loro uso come medicamenti

**INVENTORS**

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**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 these 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 medicaments

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