



ISTITUTO ITALIANO
DI TECNOLOGIA

TITLE

5-carboxamide derivatives of 2-thiobarbituric acid as type II topoisomerase inhibitors and their use as medicaments

INVENTORS

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DESCRIPTION

The invention relates to a class of 5-carboxamide-2-thiobarbituric acid derivatives able to inhibit human type II topoisomerase (topo II) enzyme. The invention also relates to the use of said 5-carboxamide-2-thiobarbituric acid derivatives for the pharmacological inhibition of topo II in the treatment of a variety of pathophysiological conditions, especially in the treatment of cancer.

The compounds subject-matter of the present invention proved to be potent inhibitors towards topo II and, at the same time, showed promising results in blocking the proliferation of cancer cells.

APPLICATIONS

Cancer treatment, oncology

KEYWORDS

anticancer drugs , topoisomerase II inhibitors, 5-carboxamide-2-thiobarbituric acid scaffold

BIBLIOGRAPHIC DATA

Acidi-5-carbossamide-2-tiobarbiturici e loro uso come medicamenti

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