OXINDOLES DERIVATIVES, PREPARATION METHOD THEREOF AND PHARMACEUTICAL COMPOSITIONS FOR THE PREVENTION OR TREATMENT OF CANCER CONTAINING THE SAME AS AN ACTIVE INGREDIENT

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REFERENCES CITED


* cited by examiner

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ABSTRACT

The present invention relates to a novel oxindole derivative having anticancer activity, a preparation method thereof, and a method for treating cancer using the same. More specifically, the present invention relates to an oxindole derivative produced as a result of CH alkylation and subsequent intramolecular cyclization reaction using a rhodium (III) catalyst, a preparation method of the same, and a method for treating cancer containing the same as an active ingredient. The novel oxindole derivatives according to the present invention have excellent anticancer activity against various human cancer cell lines and are expected to be useful for the treatment of cancer. In addition, the preparation method of an oxindole derivative using the rhodium (III) catalyst of the present invention can be applied and introduced into a wide range of functional groups, and is a reaction having positional selectivity and chemical selectivity. As a reaction for synthesizing a new drug or a compound having biological activity, it will be useful.

13 Claims, 6 Drawing Sheets