

论文

若干卤代靛玉红衍生物的合成

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摘要:

关键词:

SYNTHESIS OF SOME HALOGENATED INDIRUBIN DERIVATIVES

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Abstract:

Indirubin has been used clinically to treat chronic granulocytic leukemia, but poor solubility limited its absorption in the body. In order to reduce its side effect and raise its therapeutic effect on chronic granulocytic leukemia, six halogen-substituted derivatives were synthesized. Compounds I, II, III and V exhibited higher antitumor activity against L₇₂₁₂ bearing mice and W₂₅₆ bearing rats than indirubin. In the parallel experiment, the most active compound III showed increase in lifespan of mice bearing L₇₂₁₂ by 41~73%, and marked inhibitory action against W₂₅₆ in rats with the inhibition rates of 48~83%, while indirubin showed 0 and 30% inhibition.

Keywords: 3-Indolol Halogenated isatin Halogenated indirubin

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