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Synthesis and anticancer activity of new dihydropyrimidinone derivatives

Amany S. Mostafa, Khalid B. Selim

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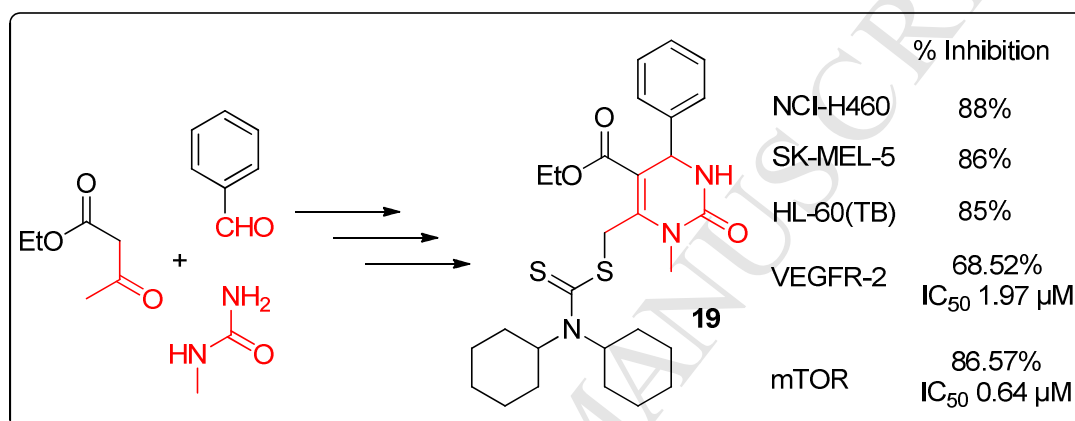


Graphical Abstract

Synthesis and anticancer activity of new dihydropyrimidinone derivatives

Amany S. Mostafa and Khalid B. Selim

A series of dihydropyrimidinone derivatives bearing various heteroaryl moieties was designed, synthesized and evaluated for anticancer activity. Compound **19** possessed the most significant activity against NCI-H460, SK-MEL-5 and HL-60(TB) cell lines. It proved to have dual inhibitory effect against VEGFR-2 and mTOR. Cell cycle analysis of A549 cells showed cell cycle arrest at G2/M phase and pro-apoptotic activity.



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