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European Journal of Medicinal Chemistry

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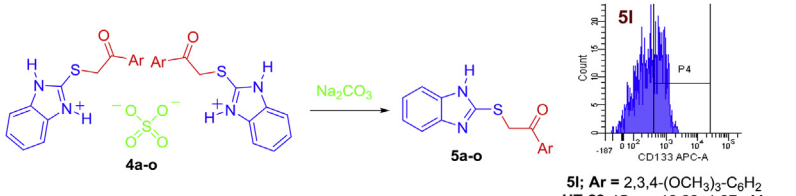
European Journal of Medicinal Chemistry Vol 104, 2015

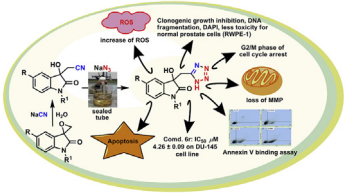
Graphical abstracts

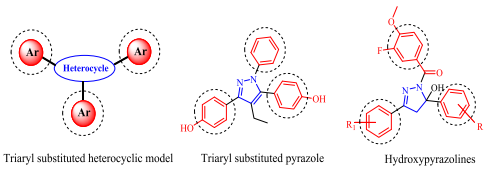
ORIGINAL ARTICLES



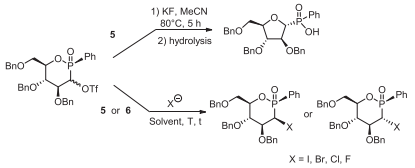
5l; Ar = 2,3,4-$(OCH_3)_3$-C_6H_2
HT-29; IC_{50} = 18.83±1.37 μM
CD133 inhibition = 50.11±4.05 %

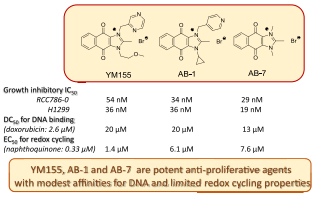
2-((Benzimidazol-2-yl)thio)-1-arylethan-1-ones **5a-o** were synthesized to evaluate their activities towards colon HT-29 cancer cell line and the cell surface expression of CD133, a potent cancer stem cells (CSCs) marker.

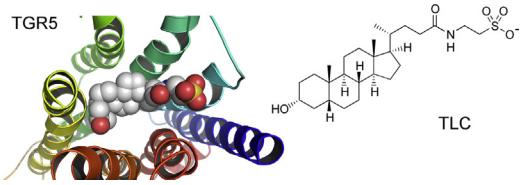


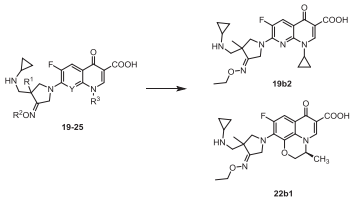


A new series of hydroxypyrazoline derivatives bearing 3-fluoro-4-methoxyphenyl moiety were synthesized and evaluated for their cytotoxicity and antioxidant activity. Compound **4i** showed potent cytotoxic and antioxidant activity.









A series of novel fluoroquinolone derivatives were synthesized. 19b2 showed good activity against MTB/MDR-MTB strains. 22b1 was more potent than levofloxacin against Gram-positive strains including MRSA and MRSE.