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(57) Abstract :

The present invention relates to novel 3-thiazolyl-linked quinolone compounds designed to exhibit enhanced bactericidal activity against rifampicin- and isoniazid-resistant Mycobacterium tuberculosis. The disclosed compounds comprise a quinolone core structurally modified at the 3-position through covalent linkage with a substituted thiazole moiety, thereby improving DNA gyrase inhibition, intracellular penetration, and overall antimycobacterial potency. The invention further provides methods for synthesizing the said compounds, pharmaceutically acceptable salts and derivatives thereof, pharmaceutical compositions containing the same, and therapeutic methods for the treatment of multidrug-resistant tuberculosis. The structural innovation described herein offers a promising approach for overcoming resistance associated with conventional first-line anti-tubercular agents. Accompanied Drawing [FIGS. 1-2]

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