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Synthesis of potential lytic transglycosylase inhibitors

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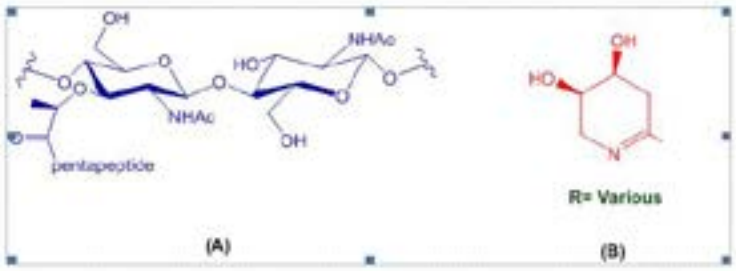
Lytic transglycosylases are bacterial enzymes that are responsible for creating space within the cell wall to insert new material during cell growth and division as well as making pores to allow transport of DNA and proteins across the cell wall. Due to these important roles, lytic transglycosylases may present an attractive new target for the development of broad-spectrum antibiotics. Different inhibitors have been synthesized using mimics for the intermediate species in the reaction catalysed by lytic transglycosylases. Herein we aimed to synthesis and evaluate a series of amidine derivatives as inhibitors of soluble lytic transglycosylases.



Biography

Aysha Mezoughi has an experience in organic synthesis, protein synthesis and purification and enzyme kinetics. She is working in chemical biolog, her project is based on antibiotic resistance. Her experience is based on her education, teaching and research in the university. Her qualifications are: MSc in organic chemistry, school of chemistr, Tripoli university (2005), lecturer in organic chemistry, school of chemistry, Tripoli university (2005-2013), PhD student at Cardiff university(2014-present), she has published five papers, three in organic chemistry journals and two in biochemistry journals

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