

THE DISTILLERY

This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Infectious disease				
Bacterial infection	DNA gyrase subunit B (gyrB); topoisomerase IV Par E subunit (parE)	Rodent and <i>in vitro</i> studies have identified an aminobenzimidazole urea inhibitor of bacterial gyrB and parE that could help treat bacterial infections. In a panel of 5 Gram-positive and 2 Gram-negative bacterial strains, the compound inhibited growth with MIC values of less than 600 nM in all Gram-positive and one Gram-negative strain. In a mouse model of <i>Staphylococcus aureus</i> infection in the thigh, the compound decreased bacterial loads compared with vehicle. Next steps could include optimizing the lead aminobenzimidazole urea compound and evaluating it in additional bacterial infection models.	Patent application filed; licensing status undisclosed	Grillot, AL. <i>et al. J. Med. Chem.</i> ; published online Oct. 15, 2014; doi:10.1021/jm500563g Contact: Anne-Laure Grillot, Vertex Pharmaceuticals Inc., Boston, Mass. e-mail: anne-laure_grillot@vrtx.com

SciBX 7(45); doi:10.1038/scibx.2014.1320 Published online Nov. 20, 2014