

This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Cardiovascular disease				
Arterial thrombosis; thrombosis	Purinergic receptor P2Y G protein-coupled 1 (P2RY1; P2Y1)	<i>In vitro</i> and rat studies have identified P2Y1 antagonists that could help treat thrombosis. Chemical synthesis, SAR and <i>in vitro</i> testing of <i>ortho</i> -anilino diaryl urea analogs identified several inhibitors of P2Y1 that blocked platelet aggregation <i>ex vivo</i> in human plasma at low nanomolar IC ₅₀ values. In rat models of arterial thrombosis and venous thrombosis, one compound decreased thrombus formation and increased blood flow compared with vehicle. Future work could include optimizing the bioavailability and other pharmacokinetic parameters of the lead compound.	Patent and licensing status unavailable	Qiao, J.X. <i>et al. J. Med. Chem.</i> ; published online Oct. 28, 2013; doi:10.1021/jm4013906 Contact: Jennifer X. Qiao, Bristol-Myers Squibb Co., Pennington, N.J. e-mail: jennifer.qiao@bms.com
<p><i>SciBX</i> 6(47); doi:10.1038/scibx.2013.1348 Published online Dec. 12, 2013</p>				