CARBOGEN AMCIS – Innovative Chemistry Solutions

Scientific Publications

1) Process Development and Multikilogram Syntheses of XL228 Utilizing a Regioselective Isoxazole Formation and a Selective SNAr Reaction to a Pyrimidine Core, *Org. Process Res. Dev.,* **2013**, 17 (8), pp 1066–1073

2) Safety Assessment for the Scale-up of an Oxime Reduction with Melted Sodium in Standard Pilot-Plant Equipment, *Org. Process Res. Dev., Article ASAP*, **2012**, **DOI: 10.1021/op300101d**

3) Identification of a 1,2,4,5-Tetraoxane Antimalarial Drug-Development Candidate (RKA 182) with Superior Properties to the Semisynthetic Artemisinins *Angewandte Chemie Int. Ed.*, **2010**, 49, pp 5693–5697.

4) Implementation of a High-Temperature Claisen Approach for Early Phase Delivery of a Benzopyran Derivative, *Org. Process Res. Dev.*, **2010**, 14 (1), pp 85–91

5) Preparation of a HMG-CoA Reductase Inhibitor via an Optimized Imidazole-Forming Condensation Reaction, *Org. Process Res. Dev.*, **2008**, 12 (6), pp 1183–1187

6) Development of a Scalable Synthetic Route to GSK369796 (N-tert-Butyl Isoquine), a Novel 4-Aminoquinoline Antimalarial Drug, *Org. Process Res. Dev.*, **2008**, 12 (2), pp 294–297

7) First Safe and Practical Synthesis of 2-Amino-8-hydroxyquinoline, *Org. Process Res. Dev.*, **2004**, 8 (4), pp 663–665

8) Large-Scale Preparation of 3-Methyl-4H-[1,2,4]oxadiazol-5-one, Potassium or Sodium Salt, *Org. Process Res. Dev.*, **2002**, 6 (6), pp 896–897

9) 2-(Diethylamino)ethanethiol, a New Reagent for the Odorless Deprotection of Aromatic Methyl Ethers, *J. Org. Chem.*, **2006**, 71 (18), pp 7103–7105

10) Chiroptical Properties of Some Monoazapentahelicenes, *J. Phys. Chem. A*, **2004**, 108 (52), pp 11752–11761

We have been acknowledged for technical support (e.g. development of the new synthetic routes, analytical studies, assay development, API/ intermediates supply and scale-up) for the work published in the following papers:

11) Development of a Scaleable Route for the Production of cis-N-Benzyl-3-methylamino-4-methylpiperidine, *Org. Process Res. Dev.*, **2003**, 7 (1), pp 115–120

12) Synthesis and Biological Activity of Phosphonate Analogues and Geometric Isomers of the Highly Potent Phosphoantigen (E)-1-Hydroxy-2-methylbut-2-enyl 4-Diphosphate, *J. Med. Chem.*, **2008**, 51 (6), pp 1747–1754

13) Characterization of Dicarboxylic Salts of Protonated Triethylenetetramine Useful for the Treatment of Copper-Related Pathologies, *Crystal Growth & Design*, **2007**, 7 (9), pp 1844–1850

14) Development of a Mild and Robust Method for Large-Scale Palladium-Catalysed Cyanation of Aryl Bromides: Importance of the Order of Addition, *Org. Process Res. Dev.*, **2008**, 12 (3), pp 540–543

15) Optimized Catalytic Enantioselective Aryl Transfer Process Gives Access to mGlu2 Receptor Potentiators, *Org. Process Res. Dev.*, **2007**, 11 (3), pp 560–567

16) Diastereoselective Synthesis of 2,3,6-Trisubstituted Piperidines, *J. Org. Chem.*, **2009**, 74 (12), pp 4525–4536

17) Pilot Plant Preparation of an αvβ3 Integrin Antagonist. Part 1. Process Research and Development of a (S)-β-Amino Acid Ester Intermediate: Synthesis via a Scalable, Diastereoselective Imino-Reformatsky Reaction, *Org. Process Res. Dev.*, **2004**, 8 (1), pp 51–61