



Universiteit
Leiden
The Netherlands

Cyclophellitol analogues for profiling of exo- and endo-glycosidases

Schröder, S.P.

Citation

Schröder, S. P. (2018, May 17). *Cyclophellitol analogues for profiling of exo- and endo-glycosidases*. Retrieved from <https://hdl.handle.net/1887/62362>

Version: Not Applicable (or Unknown)

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/62362>

Note: To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/62362> holds various files of this Leiden University dissertation

Author: Schröder, Sybrin P.

Title: Cyclophellitol analogues for profiling of exo- and endo-glycosidases

Date: 2018-05-17

List of publications

Catalytic Decarboxylative Alkenylation of Enolates

S. P. Schröder, N. J. Taylor, P. Jackson and V. Franckevičius

Org. Lett., **2013**, *15*, 3778-3781

From covalent glycosidase inhibitors to activity-based glycosidase probes

L. I. Willems, J. Jiang, K.-Y. Li, M. D. Witte, W. W. Kallemijn, T. J. M. Beenakker, S. P. Schröder, J. M. F. G. Aerts, G. A. van der Marel, J. D. C. Codée and H. S. Overkleeft

Chem. Eur. J., **2014**, *20*, 10864-10872

The synthesis of cyclophellitol-aziridine and its configurational and functional isomers

J. Jiang, M. Artola, T. J. M. Beenakker, S. P. Schröder, R. Petracca, C. de Boer, J. M. F. G. Aerts, G. A. van der Marel, J. D. C. Codée and H. S. Overkleeft

Eur. J. Org. Chem. **2016**, *2016*, 3671-3678

A divergent synthesis of L-arabino- and D-xylo-configured cyclophellitol epoxides and aziridines

S. P. Schröder, R. Petracca, H. Minnee, M. Artola, J. M. F. G. Aerts, J. D. C. Codée, G. A. van der Marel and H. S. Overkleeft

Eur. J. Org. Chem. **2016**, *2016*, 4787-4794

Towards broad spectrum activity-based glycosidase probes: synthesis and evaluation of deoxygenated cyclophellitol aziridines

S. P. Schröder, J. W. van de Sande, W. W. Kallemijn, C.-L. Kuo, M. Artola, E. J. van Rooden, J. Jiang, T. J. M. Beenakker, B. I. Florea, W. A. Offen, G. J. Davies, A. J. Minnaard, J. M. F. G. Aerts, J. D. C. Codée, G. A. van der Marel and H. S. Overkleeft

Chem. Commun. **2017**, *53*, 12528-12531

Palladium-Catalysed Construction of All-Carbon Quaternary Centres with Propargylic Electrophiles: Challenges in the Simultaneous Control of Regio-, Chemo- and Enantioselectivity

M. Kenny, S. P. Schröder, N. J. Taylor, P. Jackson, D. J. Kitson, V. Franckevičius
Synthesis **2018**, DOI: 10.1055/s-0036-1591957

Gluco-1*H*-imidazole: a new class of azole-type β -glucosidase inhibitor

S. P. Schröder, L. Wu, M. Artola, T. Hansen, W. A. Offen, M. J. Ferraz, K.-Y. Li, J. M. F. G. Aerts, G. A. van der Marel, J. D. C. Codée, G. J. Davies and H. S. Overkleeft
J. Am. Chem. Soc. **2018**, <http://dx.doi.org/10.1021/jacs.8b02399>

Curriculum vitae

Sybrin Schröder was born on the 20th of July 1989 in Nijmegen. After finishing his secondary education (VWO) at the Nijmeegse Scholengemeenschap Groenewoud in 2007, he commenced his studies in Chemistry at the Radboud Universiteit Nijmegen. He received his Bachelors degree in 2010 after successfully completing his internship in the group of Prof. dr. Alan E. Rowan. Then, he obtained his Masters degree in 2012 after completing his internship in the group of Prof. dr. Floris P. J. T. Rutjes entailing the synthesis of fluorinated analogues of 1-deoxynojirimycin, followed by an internship abroad at the University of York in the group of Prof. dr. Richard J. K. Taylor focused on palladium catalyzed decarboxylative propargyl transfer reactions. After his Masters degree, he worked as process chemist at ChemConnection in Oss for a period of six months. In 2013, he started his PhD studies at Leiden University in the bio-organic synthesis group under supervision of Prof. dr. Hermen S. Overkleeft. Parts of the research described in this Thesis were presented on posters at Molecules: Synthesis and Properties (Lunteren, 2013), CHAINS (Veldhoven, 2014, 2016), EMBL Chemical Biology (Heidelberg, 2014), COST (Oxford, 2015), Reedijk Symposium (Leiden, 2016) and Eurocarb (2017, Barcelona). Oral presentations about his research were presented at the annual ABPP conferences in Leiden (2017) and Oxford (2018). Sybrin is currently continuing his research in the group of Prof. dr. Overkleeft as a postdoctoral fellow.

