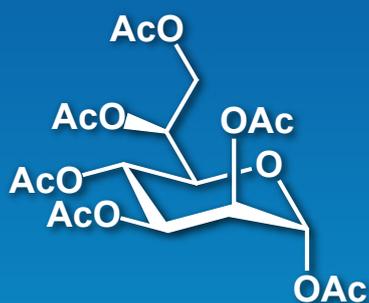


Affordable, Crystalline and Bench-stable Derivative of L-glycero-D-manno Heptose



LD-Heptose Peracetate

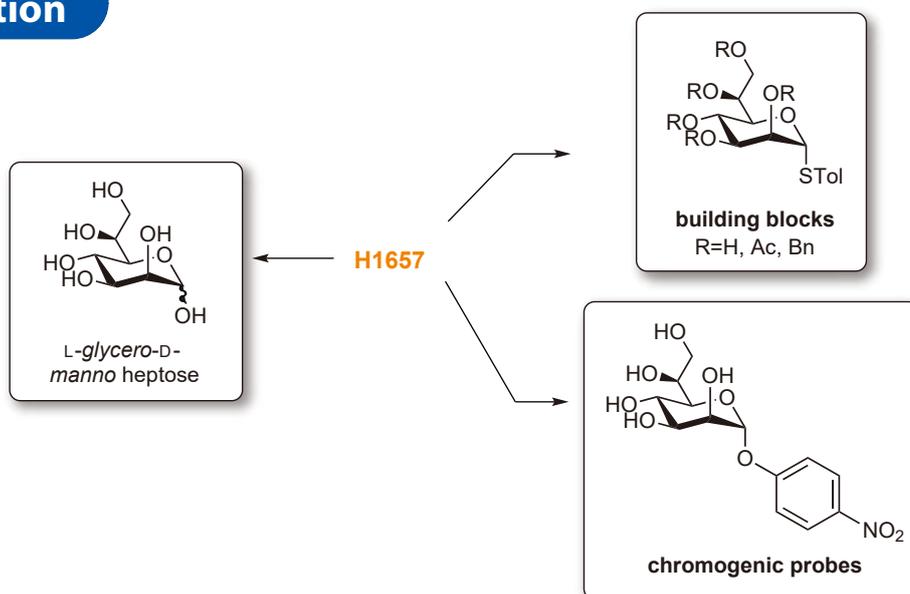
20mg / 100mg

[H1657]

Advantages

- Hexaacetyl Ester of Heptose Commonly Located in Cell Walls of Gram-negative Bacteria
- Applicable to the Synthesis of LPSs (LipoPolySaccharides)

Application

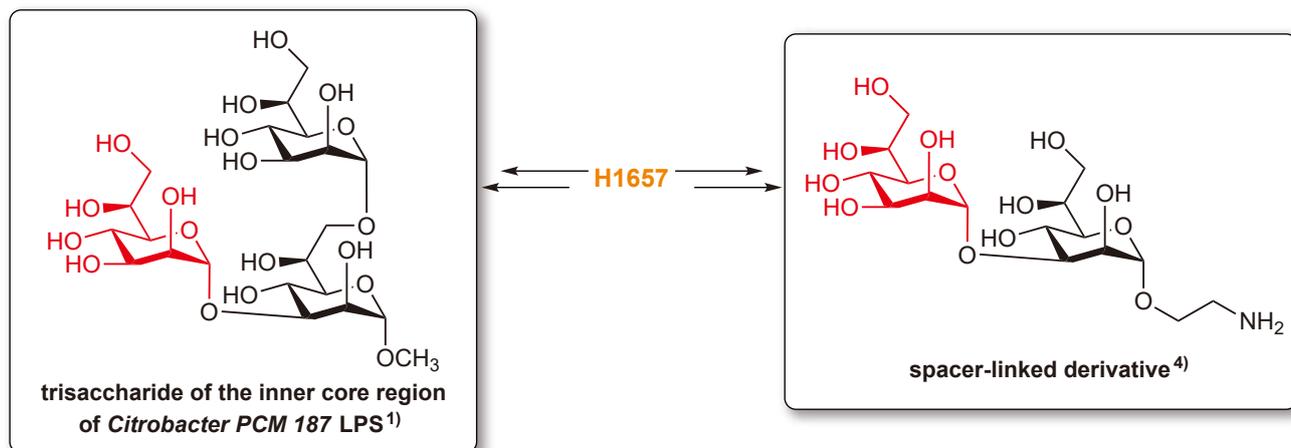


The higher-carbon sugar L-glycero-D-manno heptose (LD-heptose) is a central and conserved constituent of the lipopolysaccharide (LPS), which is located in the cell walls of Gram-negative bacteria and exhibits major interactions with the host's immune system. Consequently, ever since its discovery in the 1980s, LD-heptose-containing structures have been in the focus of research activities aiming at next generation antibiotic agents or at vaccine strategies.

H1657 can serve as a common starting point to short routes to parent LD-heptose, chromogenic probes (e.g. for screenings for heptose processing enzymes), as well as to suitable donor and acceptor building blocks required for the assembly of bacterial oligosaccharides. And it will invite new research groups to enter this challenging but important field of bacterial cell wall glycosides promising great potential for future directions in the ongoing combat against microbial infections.

Affordable, Crystalline and Bench-stable Derivative of L-glycero-D-manno Heptose

Synthesis of Oligosaccharide



- References**
- 1) G. J. P. H. Boons, M. Overhand, G. A. van der Marel, J. H. van Boom, *Carbohydr. Res.* **1999**, 192, C1.
DOI: <https://doi.org/10.1016/0008-6215%2889%2985198-5>
 - 2) A. Reiter, A. Zamyatina, H. Schindl, A. Hofinger, P. Kosma, *Carbohydr. Res.* **1999**, 317, 39.
DOI: <https://doi.org/10.1016/S0008-6215%2899%2900059-2>
 - 3) W. Wakarchuk, M. J. Schur, F. S. Michael, J. Li, E. Eichler, D. Whitfield, *Glycobiology* **2004**, 14, 537.
DOI: <https://doi.org/10.1093/glycob/cwh074>
 - 4) R. Yamasaki, K. Nagahara, K. Kishimoto, A. Takajyo, *Biosci. Biotechnol. Biochem.* **2012**, 76, 772.
DOI: <https://doi.org/10.1271/bbb.110903>

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