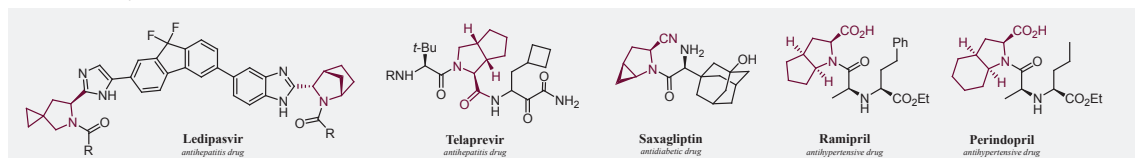


Proline analogues: advanced building blocks for drug design

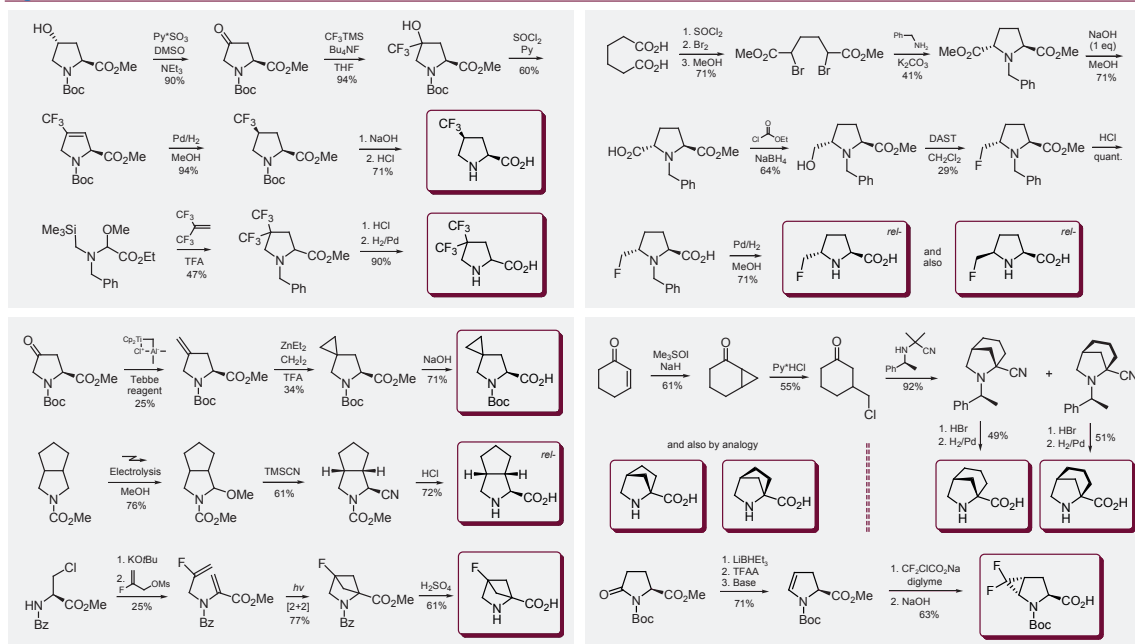
Bilenko, V.; Dolovanyuk, V.; Grygorenko, O.; Ivon, Y.; Komarov, I.; Kondratov, I.; Kubyshkin, V.; Leychenko, E.; Michurin, O.; Mykhailiuk, V.; Mykhailiuk, P.; Savchuk, T.; Tereshenko, S.; Tkachenko, A.; Tolmachev, A.; Trofymchuk, S.; Tymtsunik, A.; Vilchinskiy, V.; Yarmolchuk, V.

Introduction and Aim

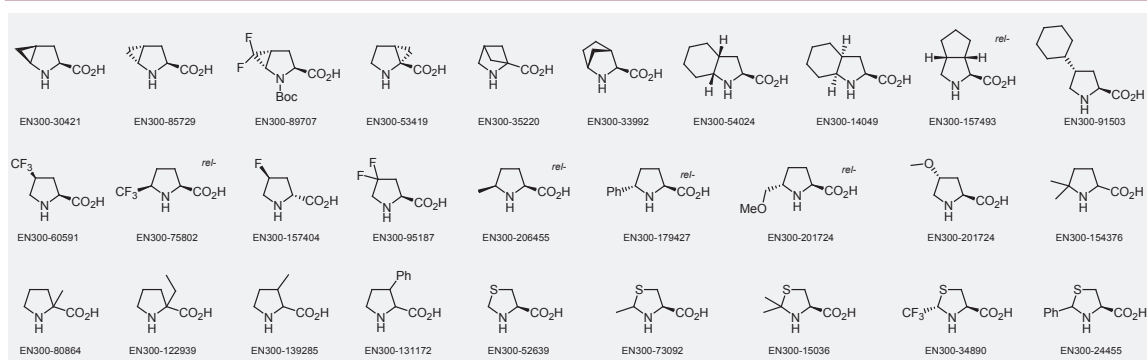
L-Proline is a natural amino acid playing an important role in drug discovery as a cheap chiral bifunctional building block. Over the past decade unnatural analogues of Proline also became extremely popular. In this work, we have rationally designed, synthesized and applied a library of novel/previously scarcely available analogues of Proline in medicinal chemistry. ¹⁻¹⁰



Synthesis



Results



Contact

Pavel Mykhailiuk, PhD
Pavel.Mykhailiuk@mail.enamine.net
Enamine Ltd. www.enamine.net
78 Chervonotkatska St, 02660 Kyiv, Ukraine

References

- V. Kubyshkin et al. *Org. Biomol. Chem.* **2015**, 3171.
- A. Tymtsunik et al. *Tetrahedron Lett.* **2014**, 3847.
- V. Kubyshkin et al. *Org. Lett.* **2012**, 5254.
- I. Kondratov et al. *Org. Biomol. Chem.* **2012**, 8778.
- P. Mykhailiuk et al. *Tetrahedron* **2011**, 3091.
- N. Kopylova et al. *Tetrahedron: Asym.* **2010**, 2868.
- V. Kubyshkin et al. *Synthesis* **2009**, 3329.
- P. Mykhailiuk et al. *Angew. Chem. Int. Ed.* **2008**, 5765.
- V. Kubyshkin et al. *Tetrahedron Lett.* **2007**, 4061.
- O. Grygorenko et al. *Tetrahedron: Asym.* **2006**, 252.