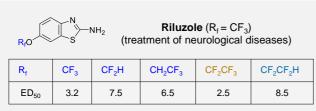
Fluoroalkyl ethers for Drug Design

Introduction

More than 20% of all modern pharmaceuticals and up to 30% of agrochemicals contain at least one fluorine atom. As a typical fluoroalkoxy group, trifluoromethoxy (-OCF_a) is prevalent in bioactive compounds. Compared to the well-studied -OCF_a group, its bulkier analogue, pentafluoroethoxy $(-OC_2F_5)$ group, has been much less explored. In fact, $-OC_2F_5$ and $-OCF_3$ groups have similar electronic properties, lipophilicity and metabolic stability. 1-4 In this context, *Enamine* offers a library of various fluoroalkyl-substituted ethers for drug design.

Case studies

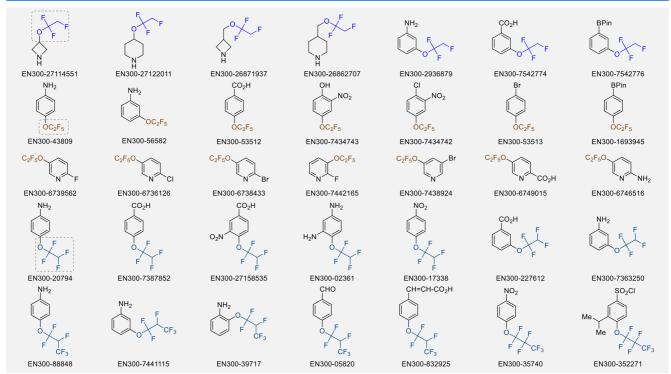


"Antiglutamate" activities of 6-fluoroalkoxy-2-benzothiazolamines.3

Properties

- lipophilicity;
- electron-withdrawing ability;
- chemical and thermal stability;
- metabolic stability.

We offer: more than 50 of fluoroalkyl ethers from stock on a 5-10 g scale.



References

- 1. T. Besset et al. Org. Chem. Front. 2016, 3, 1004.
- 2. M.-L. Fu et al. J. Org. Chem. 2017, 82, 7, 3702.

- 3. P. Jimonet et al. J. Med. Chem. 1999, 42, 15, 2828.
- 4. A. Granados et al. J. Org. Chem. 2020, 85, 16, 10378.

