

## Novel Class of Piperidine Bioisosteres

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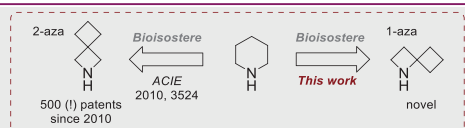
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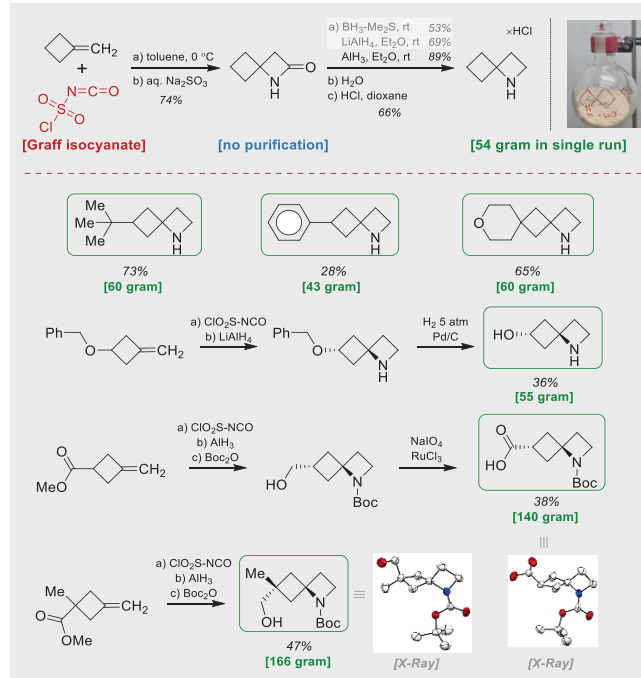
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### Introduction and Aim

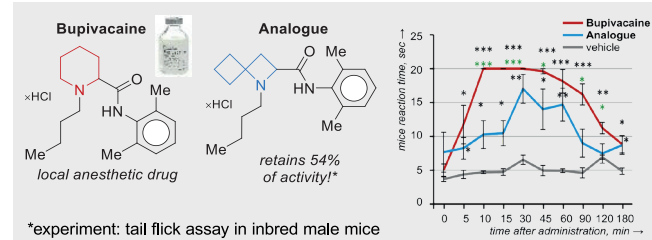
Piperidine is extremely common, being the third most frequently used ring structure in pharmaceuticals.<sup>1</sup> Replacement of piperidine with bioisosteres allows keeping the overall molecular shape, while improving the pharmacokinetics owing to far lesser susceptibility to natural degrading enzymes.<sup>2</sup> Herein, we developed 2-azaspiro[3.3]heptane as a novel class of piperidine bioisosteres.<sup>3</sup>



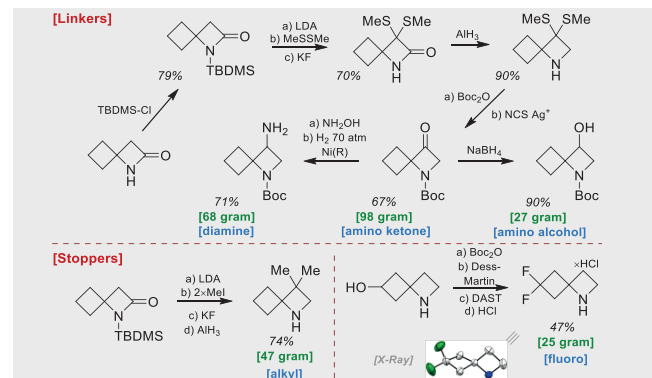
### Synthesis



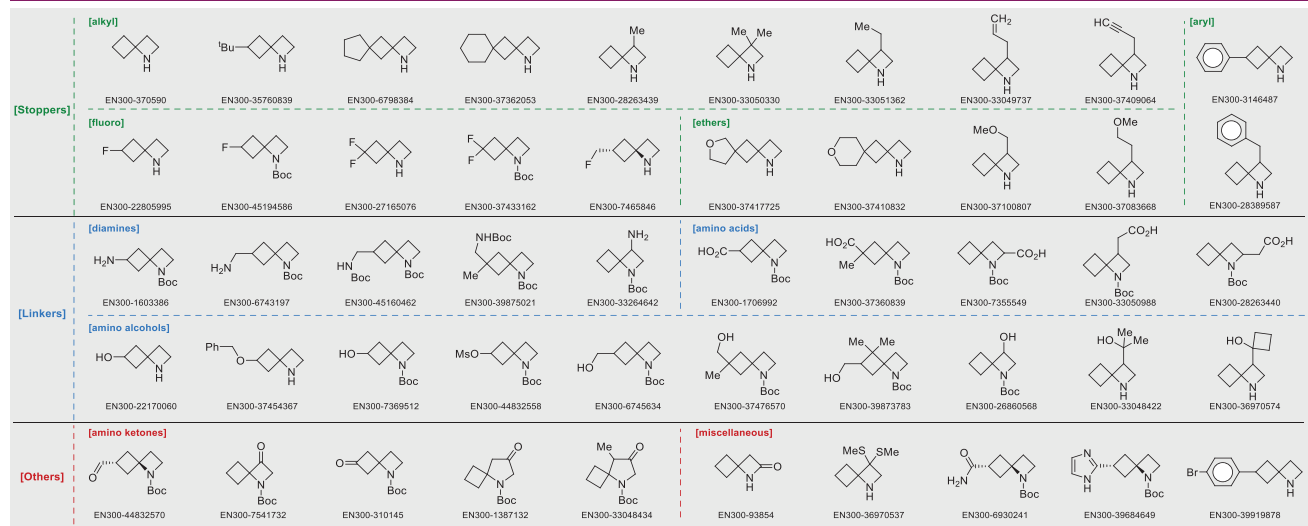
### Validation



### Modifications



### Results



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### References

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- A. A. Kirichok *et al.* **2023**, submitted, ChemRxiv: 10.26434/chemrxiv-2023-rpjl