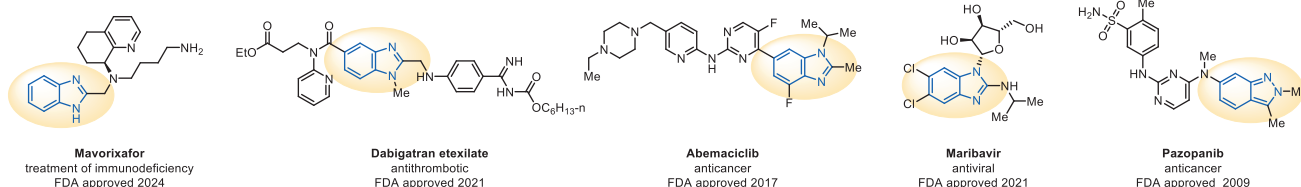


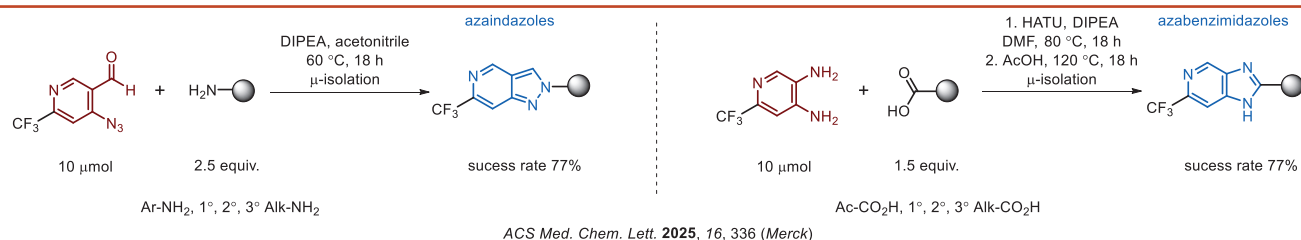
Heterocyclic Assembly of Benzazoles

Introduction

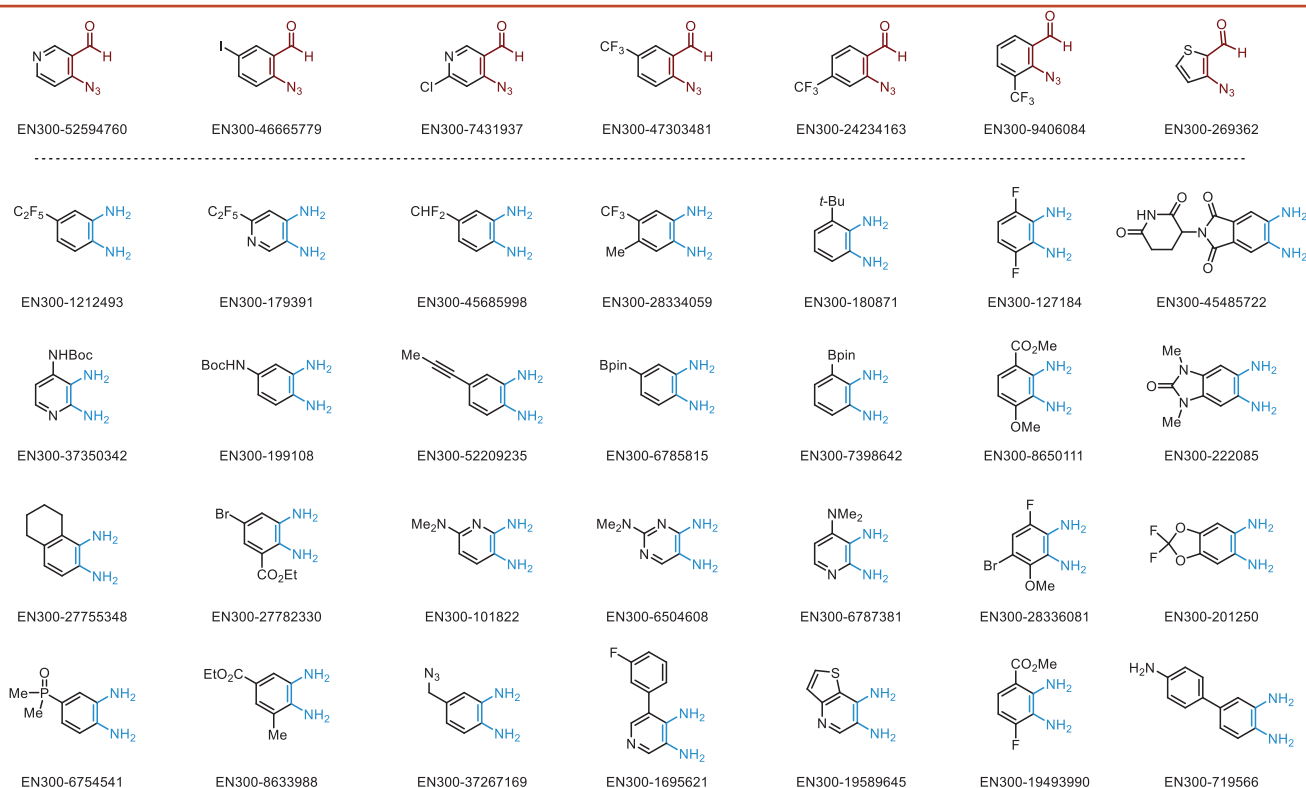
The construction of complex screening libraries requires a series of synthetic chemical reactions, culminating in a versatile, robust, and selective reaction for the high-throughput assembly of the final molecules.¹ Recently, researchers at Merck demonstrated that the heterocyclic assembly of benzimidazoles achieves parallel chemistry libraries with success rates (77%) comparable to the most common late-stage reactions, such as Suzuki and Buchwald-Hartwig cross-coupling. Their approach involves the late-stage transformation of *ortho*-diamino aromatics and *ortho*-azidoaldehydes, yielding azabenzimidazoles and azaindazoles, respectively.² The resulting heterocyclic cores are among the most prevalent in drug structures.^{3,4}



Reactions



We offer: 12 *ortho*-azidoaldehydes and over 250 *ortho*-arylenediamines from stock on 5-10 gram scale.



References

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2. B. Taoka et al. *ACS Med. Chem. Lett.* **2025**, 16, 336.

3. J. Shearer et al. *J. Med. Chem.* **2022**, 65, 8699.
4. Y. Yang et al. *J. Med. Chem.* **2024**, 67, 11622.



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