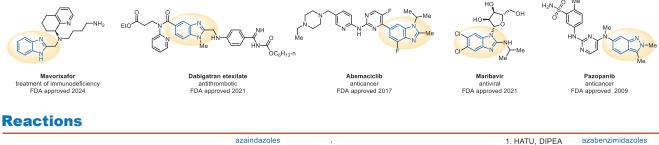
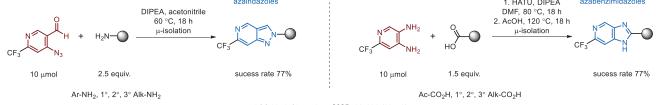
Heterocyclic Assembly of Benzazoles

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}





ACS Med. Chem. Lett. 2025, 16, 336 (Merck)

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

N H N3	I C H		CF ₃ H	CF3 N3	CF ₃	S H H
EN300-52594760	EN300-46665779	EN300-7431937	EN300-47303481	EN300-24234163	EN300-9406084	EN300-269362
C ₂ F ₅ NH ₂ NH ₂	C ₂ F ₅ , NH ₂ N, NH ₂	CHF ₂ NH ₂ NH ₂	CF ₃ Me NH ₂	NH ₂	F NH ₂ F	
EN300-1212493	EN300-179391	EN300-45685998	EN300-28334059	EN300-180871	EN300-127184	EN300-45485722
NHBoc NH ₂ NH ₂	BocHN VIII	Me NH ₂	Bpin NH ₂ NH ₂	Bpin NH ₂ NH ₂	CO ₂ Me NH ₂ OMe	
EN300-37350342	EN300-199108	EN300-52209235	EN300-6785815	EN300-7398642	EN300-8650111	EN300-222085
NH ₂ NH ₂	Br NH ₂ NH ₂ CO ₂ Et	Me ₂ N V NH ₂	Me ₂ N NH ₂ NH ₂ NH ₂ NH ₂	NMe ₂ NH ₂ NH ₂	Br OMe	F NH ₂ F NH ₂
EN300-27755348	EN300-27782330	EN300-101822	EN300-6504608	EN300-6787381	EN300-28336081	EN300-201250
Me-P Me NH ₂	EtO ₂ C NH ₂ Me	N ₃ NH ₂ NH ₂	F NH2 NH2	NH2 NNH2	CO ₂ Me NH ₂ F	H ₂ N NH ₂ NH ₂
EN300-6754541	EN300-8633988	EN300-37267169	EN300-1695621	EN300-19589645	EN300-19493990	EN300-719566

References

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