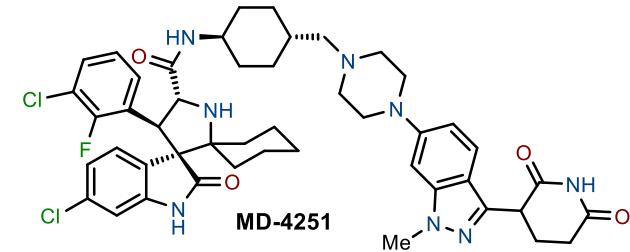
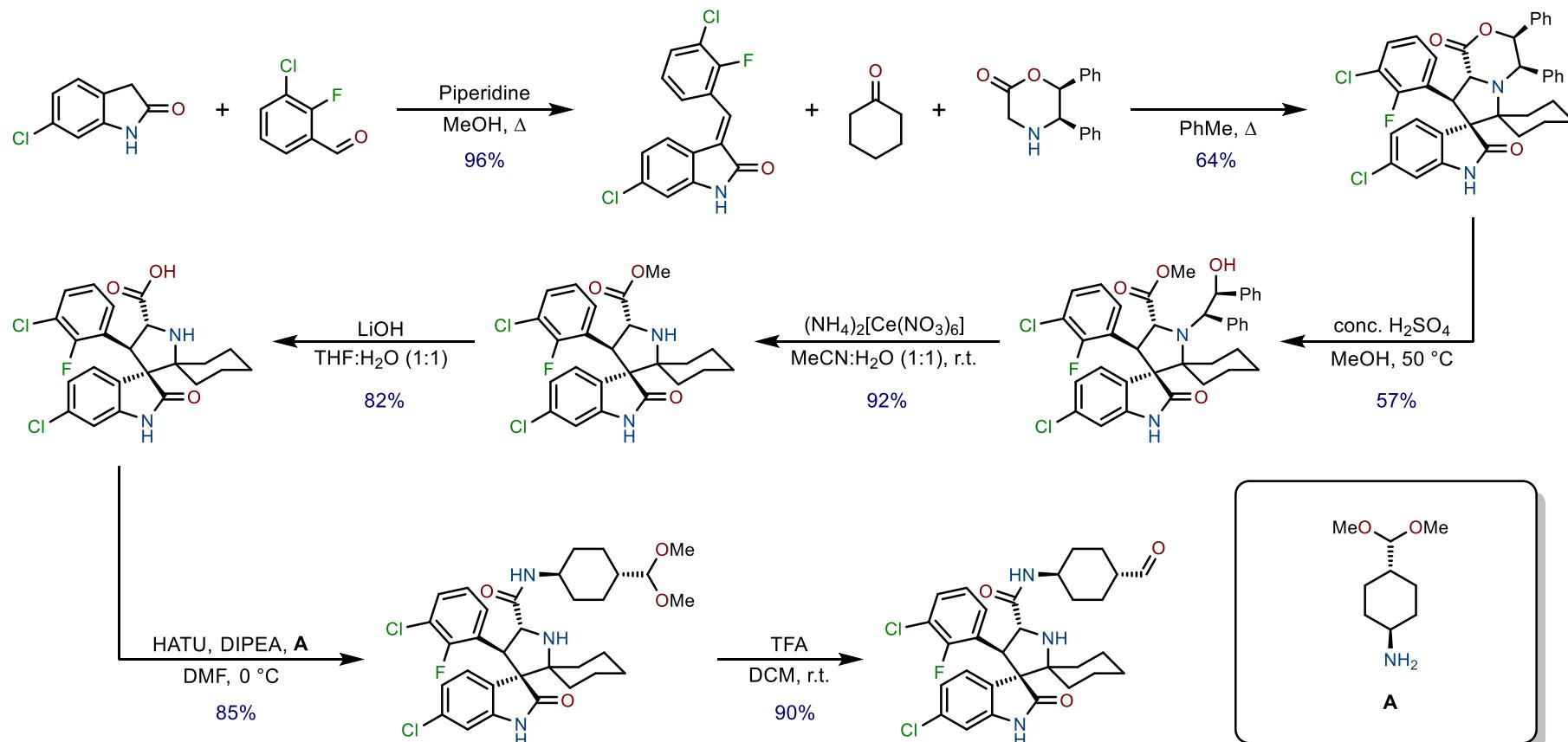


Background

- First-in-class orally available MDM2 degrader
- Decreases MDM2 concentration ($DC_{50} = 0.2$ nM) while also increasing p53 expression
- Potent ($IC_{50} = 1\text{-}2$ nM) across three human leukemia cell lines with wild-type p53
- Good PK and PD profiles
- Single dose (50 mg/kg) completely reverses tumour growth in murine models with no significant observed toxicity

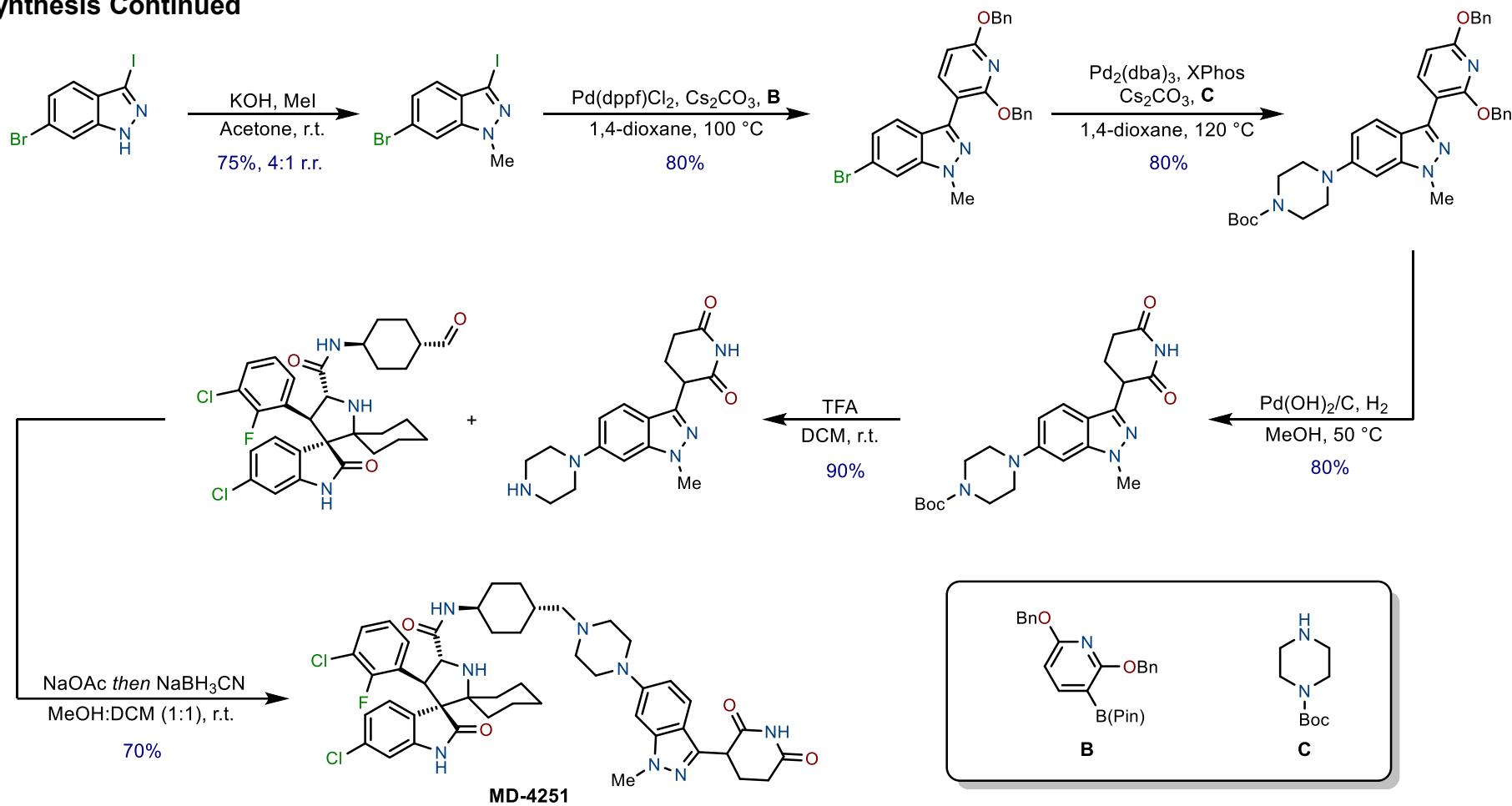


Wang, S. *J. Med. Chem.* 2025, 68, 13249. <https://doi.org/10.1021/acs.jmedchem.5c00809>

Synthesis

Wang, S. *J. Med. Chem.* 2014, 57, 10486. <https://doi.org/10.1021/jm501541j>; Shu, L. *Org. Proc. Res. Dev.* 2013, 17, 247. <https://doi.org/10.1021/op3003213>

Synthesis Continued



MD-4251 Displays Promising PK and PD

Dose (mg/kg)	Cl (mL/min/kg)	V _{ss} (L/kg)	T _{1/2} (h)	C _{max} (ng/mL)	AUC _(0-24h) (h*ng/mL)	F (%)	Dose (30 mg/kg) (PO)	6 h	72 h
3	0.6	0.9	>24	1157	20 658	39	Plasma (ng/mL)	3603 ± 1175	670 ± 137