



Cuneane as a benzene isostere

The figure displays the chemical structures of three cuneane derivatives and a comparison of benzene and cuneane geometries.

cuneane: A tricyclic hydrocarbon with a cage-like structure.

cun-ketoprofen: A cuneane derivative with a ketone group and a carboxylic acid group. *Chem. Eur. J.* **2024**, 30 (11), e202303548.

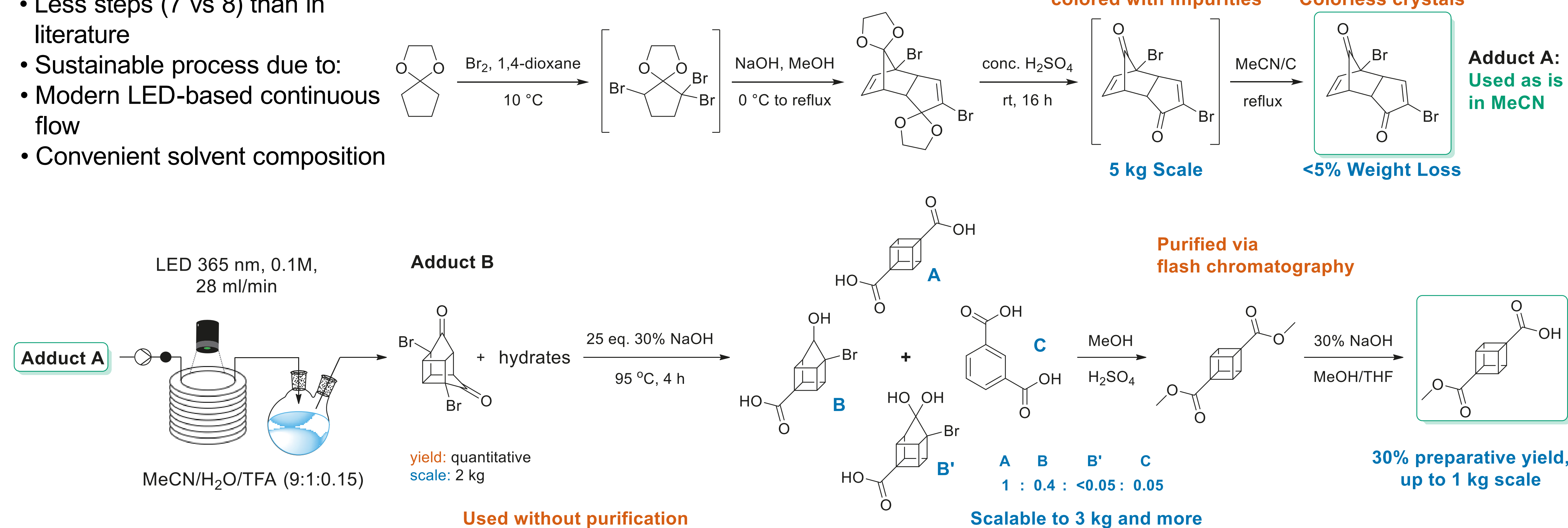
cun-sonidegib: A cuneane derivative with a pyridine ring and a trifluoromethoxy group. *J. Am. Chem. Soc.* **2023**, 145(30), 16365–16373.

Benzene vs. cuneane geometry: Comparison of bond lengths and angles between benzene and cuneane.

Parameter	Benzene	cuneane
Bond Length (Å)	1.39	1.37
Angle (°)	120	138

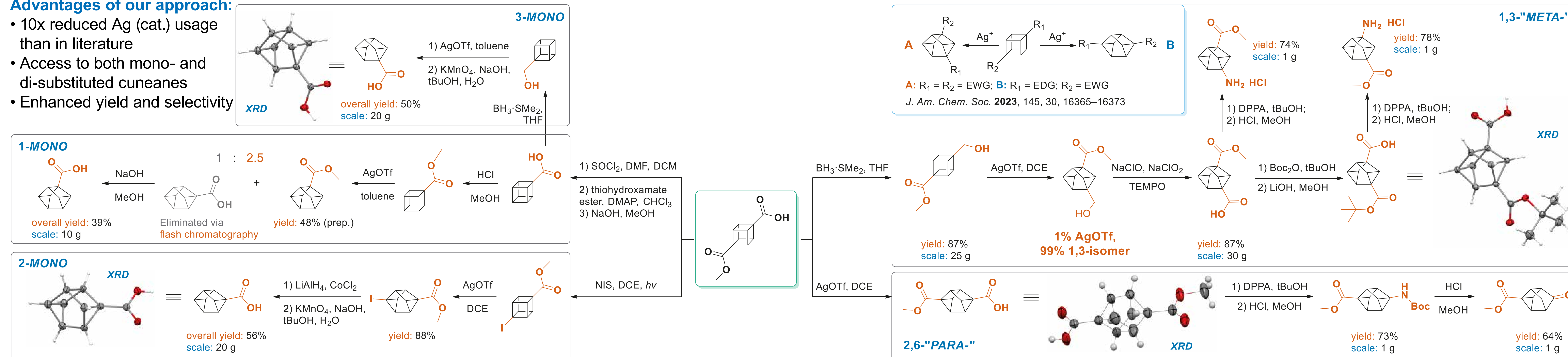
Advantages of our approach:

- Less steps (7 vs 8) than in literature
- Sustainable process due to:
- Modern LED-based continuous flow
- Convenient solvent composition



Advantages of our approach:

- 10x reduced Ag (cat.) usage than in literature
- Access to both mono- and di-substituted cuneanes
- Enhanced yield and selectivity



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