

gem-Difluoromethylene Decorated cyclic building blocks - impact on physicochemical properties

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Synthetic chemistry criteria for MedChem Relevant BBs

- Reasonable # of steps (usually 5-10 steps from kilo scale accessible starting materials).
 Atom-economy (Avoid 'big' protecting and leaving groups).
- Easy scale-up of each step (usually BB produced in 10-100 g quantity)
- Avoiding expensive/hardly accessible/exotic starting

materials/reagents/catalysts or using them in the cost-effective manner.

- Minimalization of hazardous chemistry (e.g SF₄, *t*-BuLi etc.) or use them in a safe manner
 Avoiding expensive separation/purification (e.g. HPLC)
- Avoiding time/recourses consuming procedures (e.g. extraction from the water of hydrophilic compounds)
- Useful 'formulation' (e.g no viscous oil, hygroscopic salts etc)
 Access to a diverse set of BBs with minimal structural changes

Our Strategy



- Identification of the Synthetic Target.
- Validation of the Procedures.
- Synthesis of the Representative Set.
- Interconversion of Functional Groups.
- Determination of Phys-Chem parameters.





Physico Chemical Properties



Contact

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References

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