

Bicycloalkane Building Blocks — Benzene Bioisosteres —

In recent years, significant efforts have been made to replace benzene rings with bioisosteres to improve solubility and pharmacokinetic properties.¹⁾

We offer a wide range of building blocks of bicyclo[1.1.1]pentane as a *para*-disubstituted benzene bioisostere,¹⁾ and bicyclo[2.1.1]hexane and bicyclo[3.1.1]heptane as a *meta*-disubstituted benzene bioisostere.^{2,3)}

Additionally, we provide analogs and derivatives of these compounds, including bulk quantities for scale-up production.

References

- 1) N. A. Meanwell et al., *J. Med. Chem.* **2021**, *64*, 14046. <https://doi.org/10.1021/acs.jmedchem.1c01215>
- 2) P. K. Mykhailiuk, *Org. Biomol. Chem.* **2019**, *17*, 2839. <https://doi.org/10.1039/C8OB02812E>
- 3) M. Uchiyama et al., *J. Am. Chem. Soc.* **2022**, *144*, 21848. <https://doi.org/10.1021/jacs.2c09733>

Building Blocks as *para*-Disubstituted or Mono-substituted Benzene Ring Bioisosteres



Bicyclo[1.1.1]pentanes



200mg / 1g
[M3149]



100mg
[A3655]



200mg / 1g
[D6184]



100mg / 500mg
[B6523]



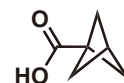
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[P3127]



1g
[B6522]

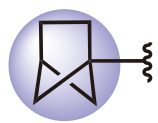


200mg / 1g
[B5479]



100mg
[B6619]

Building Blocks as *meta*-Disubstituted Benzene Ring Bioisosteres



Bicyclo[2.1.1]hexanes



200mg
[M3703]



100mg
[M3705]



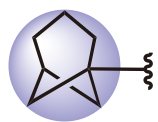
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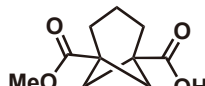
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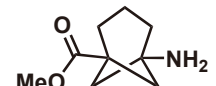
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Bicyclo[3.1.1]heptanes



100mg
[M3701]



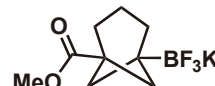
100mg
[M3751]



100mg
[B6607]



100mg
[B6608]



50mg
[P3129]

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