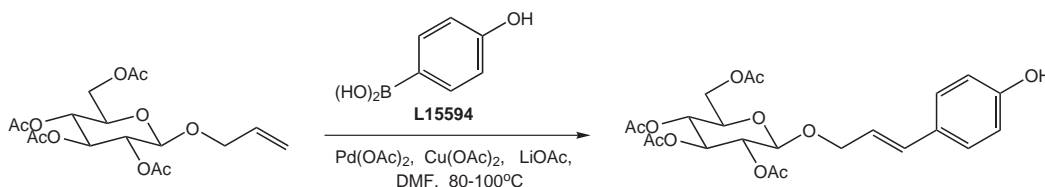
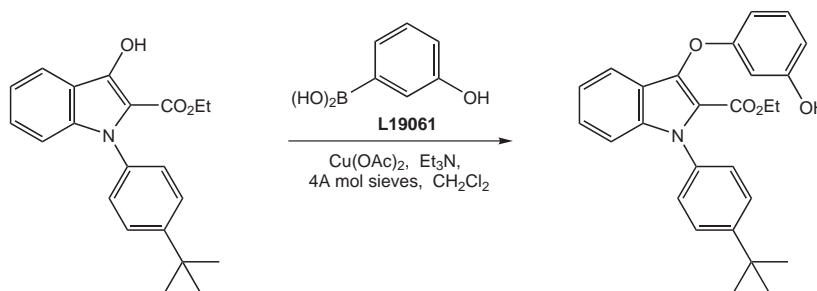
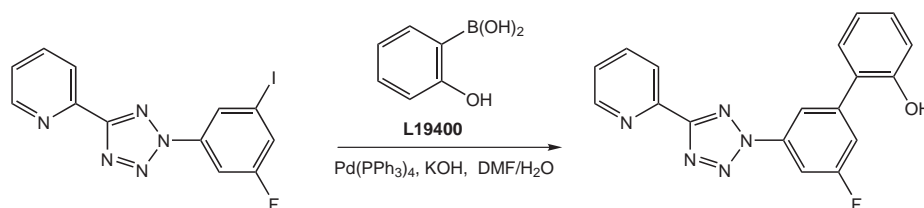


Hydroxybenzeneboronic acids:

All three isomers available from Alfa Aesar



Hydroxy-substituted benzene rings are present in many natural products and potential drug candidates. Hydroxybenzeneboronic acids provide a variety of mild routes for introducing this component, illustrated here by the use of the 2-isomer in a Suzuki coupling methodology in the synthesis of tetrazole derivatives as mGluR5 antagonists,¹ the 3-isomer in copper-catalyzed O-arylation of 3-hydroxyindoles in a route to PPAR³ partial agonists,² and the 4-isomer in a Mizoroki-Heck formation of the glucopyranoside natural product Sachalide.³



L1940 2-Hydroxybenzeneboronic acid

L19061 3-Hydroxybenzeneboronic acid

L15594 4-Hydroxybenzeneboronic acid

References:

- 1 B. Eastman et al., *Bioorg. Med. Chem. Lett.*, 2004, **14**, 5485.
- 2 J. F. Dropinski et al., *Bioorg. Med. Chem. Lett.*, 2005, **15**, 5035.
- 3 M. Kishida, H. Akita, *Tetrahedron Lett.*, 2005, **46**, 4123; *Tetrahedron*, 2005, **61**, 10559.

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