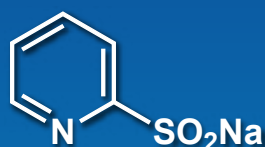


New

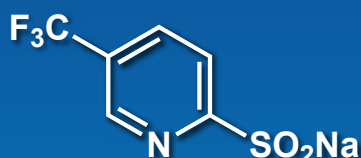
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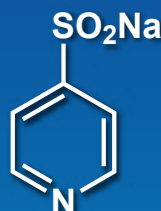
# Alternative Cross-coupling Reagents to Unstable Pyridineboronic Acids



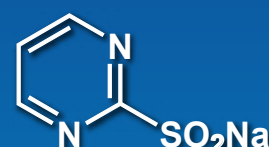
[O0533]



[O0546]



[O0539]



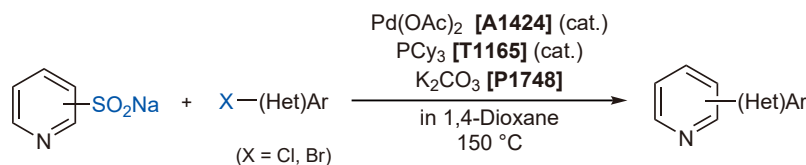
[O0541]

## Advantages

- Chemically stable and applicable to palladium-catalyzed cross-coupling with (hetero)aryl halides compared with pyridineboronic acids, which are hard to prepare and unsuitable for Suzuki-Miyaura cross-coupling
- O0533 and O0546 are utilized in transition metal free cross-coupling reaction with Grignard reagents.

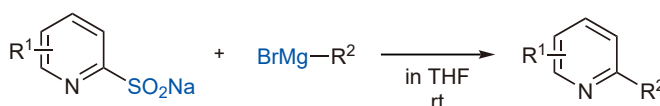
## Applications

### Palladium-catalyzed cross-coupling reaction



T. Markovic, B. N. Rocke, D. C. Blakemore, V. Mascitti, M. C. Willis, *Chem. Sci.* **2017**, *8*, 4437.

### Cross-coupling reaction with Grignard reagents



(R<sup>2</sup> = Aryl, Alkyl, Alkenyl)

J. Wei, H. Liang, C. Ni, R. Sheng, J. Hu, *Org. Lett.* **2019**, *21*, 937.

**Sodium Pyridine-2-sulfinate**

250mg / 1g [O0533]

**Sodium 5-(Trifluoromethyl)pyridine-2-sulfonate**

250mg / 1g [O0546]

**Sodium Pyridine-4-sulfinate**

250mg / 1g [O0539]

**Sodium Pyrimidine-2-sulfinate**

250mg / 1g [O0541]

## Related Products

**Palladium(II) Acetate (= Pd(OAc)<sub>2</sub>)**

1g / 5g [A1424]

**Tricyclohexylphosphine (ca. 18% in Toluene) (= PCy<sub>3</sub>)**

25mL [T1165]

**Potassium Carbonate (= K<sub>2</sub>CO<sub>3</sub>)**

300g [P1748]

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