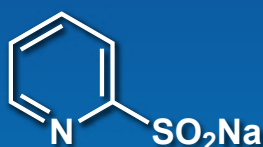
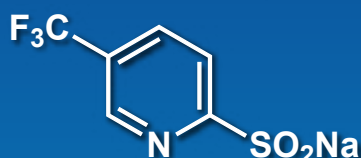


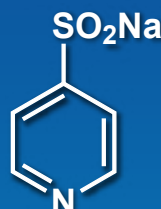
Alternative Cross-coupling Reagents to Unstable Pyridineboronic Acids



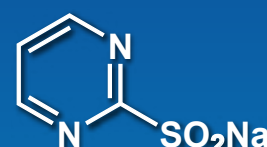
Sodium Pyridine-2-sulfinate
250mg / 1g
[O0533]



Sodium 5-(Trifluoromethyl)pyridine-2-sulfinate
250mg / 1g
[O0546]



Sodium Pyridine-4-sulfinate
250mg / 1g
[O0539]



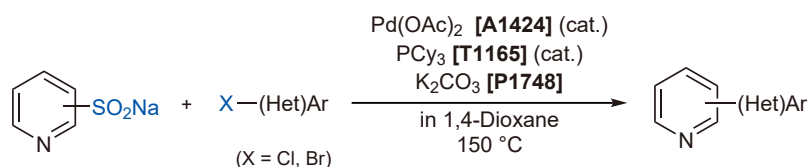
Sodium Pyrimidine-2-sulfinate
250mg / 1g
[O0541]

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.

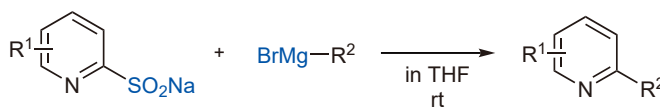
Applications

Palladium-catalyzed cross-coupling reaction



Reference T. Markovic, B. N. Roche, D. C. Blakemore, V. Mascitti, M. C. Willis, *Chem. Sci.* **2017**, *8*, 4437. DOI: <https://doi.org/10.1039/C7SC00675F>

Cross-coupling reaction with Grignard reagents



(R² = Aryl, Alkyl, Alkenyl)

Reference J. Wei, H. Liang, C. Ni, R. Sheng, J. Hu, *Org. Lett.* **2019**, *21*, 937. DOI: <https://doi.org/10.1021/acs.orglett.8b03918>

Related Products

Palladium(II) Acetate (= Pd(OAc)₂)

Tricyclohexylphosphine (ca. 18% in Toluene) (= PCy₃)

Potassium Carbonate (= K₂CO₃)

1g / 5g [A1424]

25mL [T1165]

300g [P1748]

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