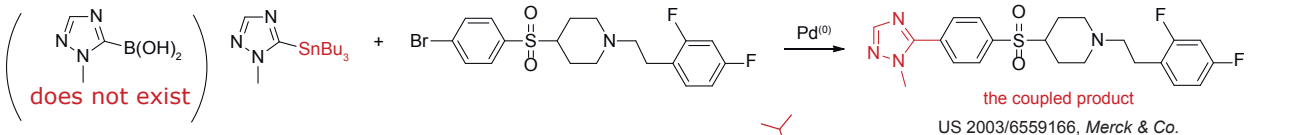
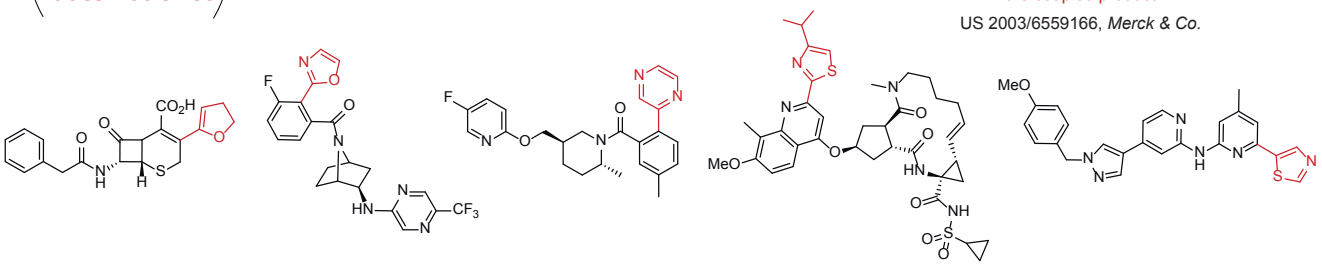
STANNANES: MORE OPTIONS FOR DRUG DESIGN

Suzuki reaction has become one of the most powerful synthetic tools in organic chemistry to construct the C(sp^2)-C(sp^2) bond. Unfortunately, many boronic acids bearing the electron-deficient heterocyclic substituents do not exist. Stannanes are more stable and can also undergo coupling reaction catalyzed with transition metals.



US 2003/6559166, *Merck & Co.*



Antibacterial agent
US 1997/5635501
Pfizer

Modulator of orexin receptor
US 2016/46640
Johnson & Johnson

Antagonist of orexin receptor
WO 2008/147518
Merck & Co.

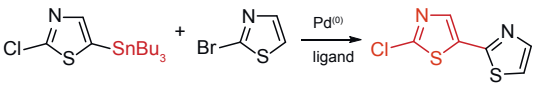
Simeprevir (TMC 435)
NS3/4A protein inhibitor
Janssen

WO 2014/074422
Syk inhibitor
Merck & Co.

Properties

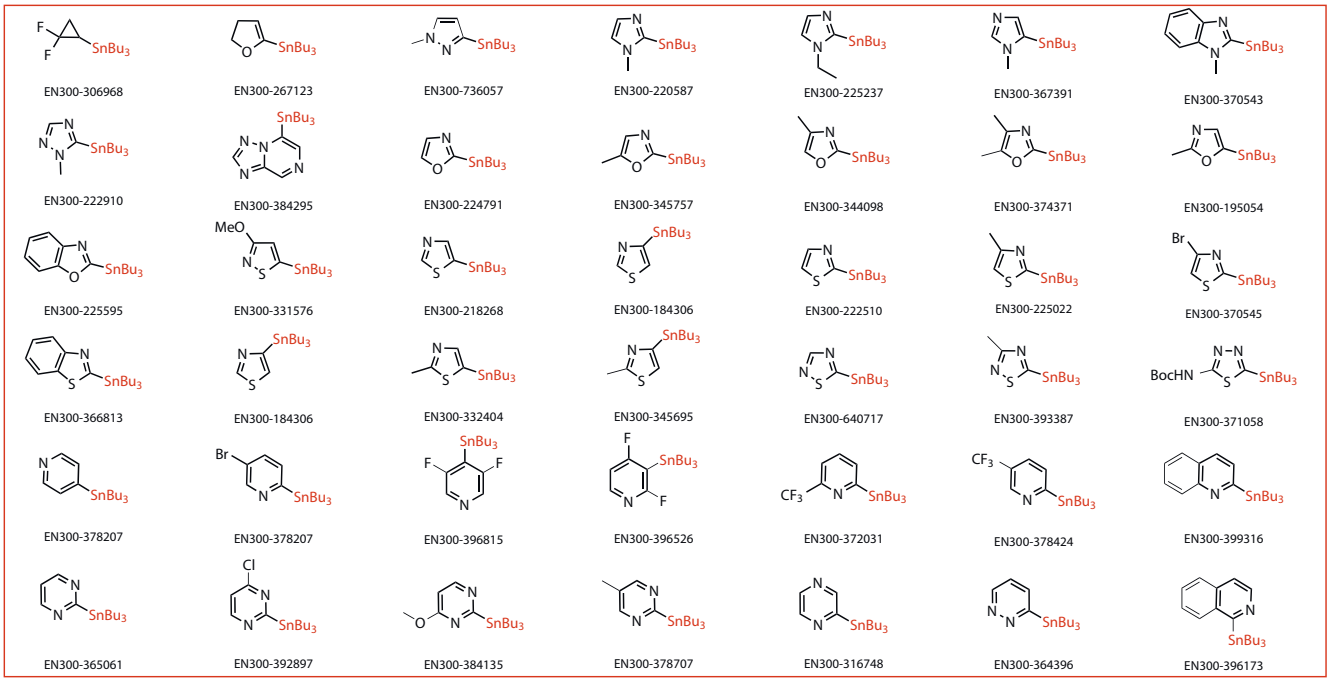
- readily prepared, purified and stored
- compatible with a wide range of functional groups
- mild reaction conditions
- not sensitive to moisture in Stille coupling

Reactivity



Stille reaction runs selectively in the presence of the active chlorine atoms.

Our offer: >100 Stannanes in gram amounts in stock.
Custom synthesis of further analogues and compound libraries



References

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[2] M. M. Heravi *et al. Tetrahedron.* **2014**, 7.
[3] K. C. Nicolaou *et al. Angew. Chem. Int. Ed.* **2005**, 4442.
[4] O. Krebs *et al. Org. Lett.* **2005**, 1063.