Heterocyclic Sulfonyl Fluorides for Pd-Catalyzed C–C Coupling Reactions

**Introduction**

Hetaryl bromides and iodides bearing SO₂F group are versatile substrates for metal catalyzed crosscoupling reactions. Due to the high energy of the S–F bond, sulfonyl fluorides are stable toward hydrolysis, metal catalysis, or reductive reaction conditions. On the other hand, they undergo selective nucleophilic substitution at the sulfur(VI) electrophilic center under controllable reaction conditions. Herein we have designed and synthesized a library of bifunctional building blocks for drug design.

![Chemical structures](image)

**Design**

We offer

![Chemical structures](image)

**References**