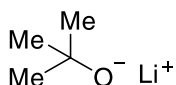
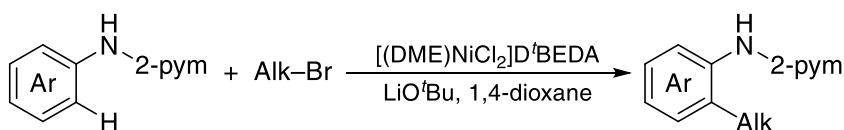


Catalog # 03-1430 CALLERY™ Lithium *tert*-Butoxide, 20% solution in tetrahydrofuran, LTB

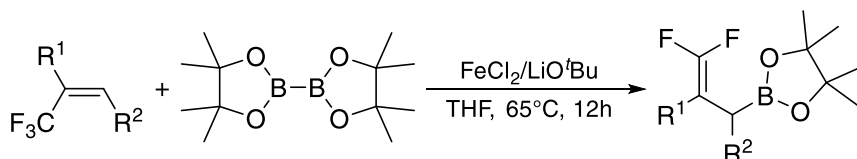


Technical Notes:

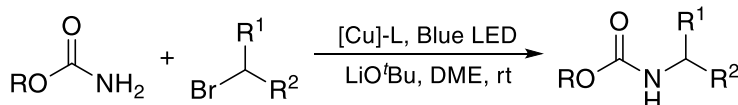
1. Base additive for Ni-catalyzed C–H alkylation of aniline derivatives with both primary and secondary alkyl halides.
2. Used in the synthesis of *gem*-difluoroallylboronates via FeCl<sub>2</sub>-catalyzed borylation/ $\beta$ -fluorine elimination of trifluoromethyl alkenes.
3. Base additive for photoinduced Cu-catalyzed N-alkylation reactions of unactivated secondary halides.
4. Base additive for Cu-catalyzed carboxylation of C–F bonds with CO<sub>2</sub>.
5. Enables transition-metal-free borylation of alkyl iodides via a radical mechanism.
6. Used for direct access to chiral secondary amides by Cu-catalyzed borylative carboxamidation of vinylarenes with isocyanates.
7. Base additive used in the stereodivergent Ir-catalyzed allylic alkylation and fluorination of acyclic ketones.
8. Base additive used in Ni-catalyzed cross-electrophile coupling between C(sp<sup>2</sup>)–F bonds in *ortho*-fluoro-substituted aromatic amides and C(sp<sup>2</sup>)–Cl bonds in aryl chlorides.
9. Base additive used in light-promoted Cu-catalyzed enantioselective alkylation of azoles.
10. Base additive Ni-catalyzed asymmetric reductive carbo-carboxylation of alkenes with CO<sub>2</sub>.



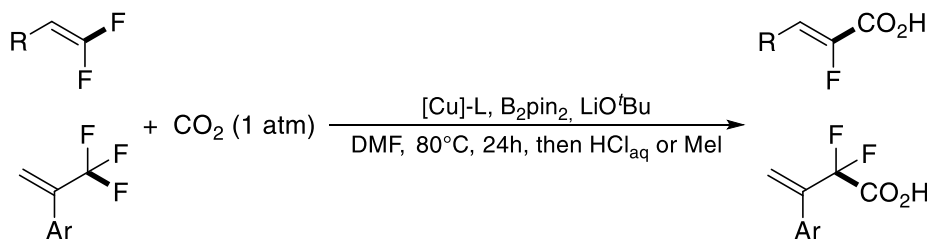
**Tech Note (1)**  
**Ref. (1)**



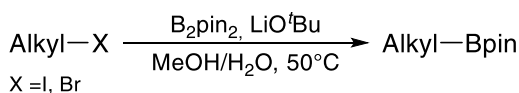
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**Ref. (2)**



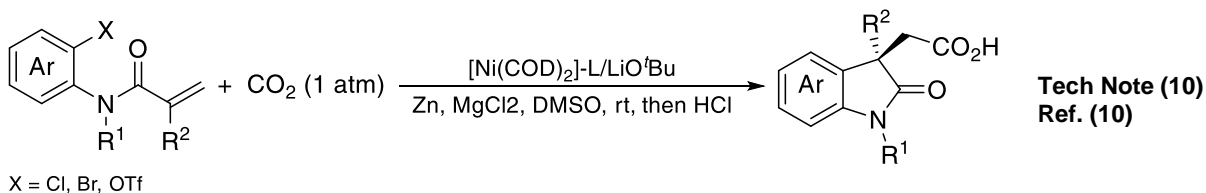
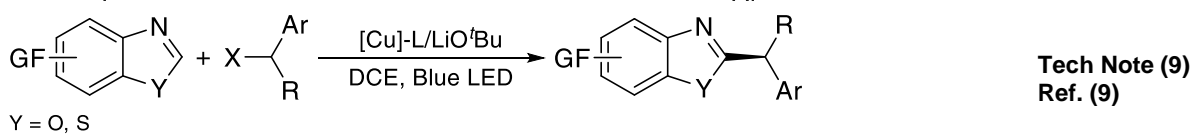
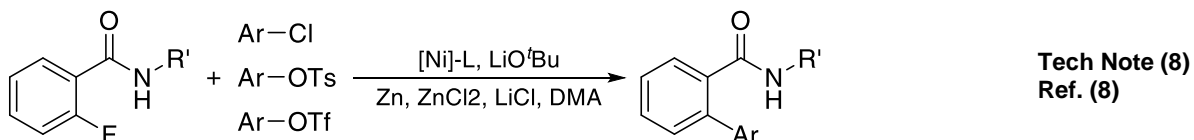
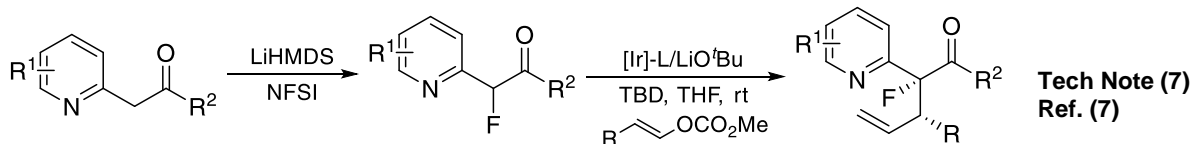
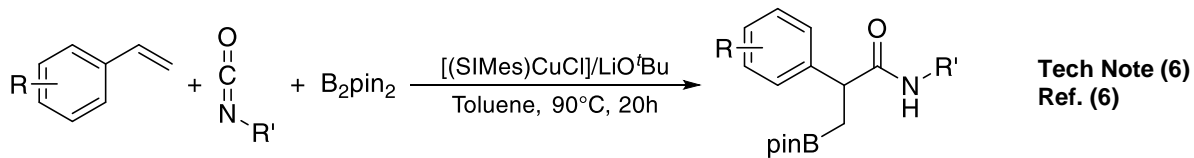
**Tech Note (3)**  
**Ref. (3)**



**Tech Note (4)**  
**Ref. (4)**



**Tech Note (5)**  
**Ref. (5)**



References:

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