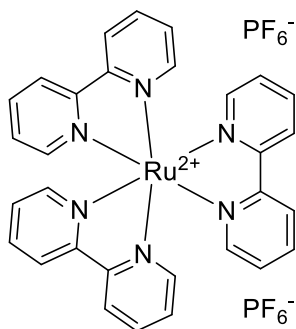
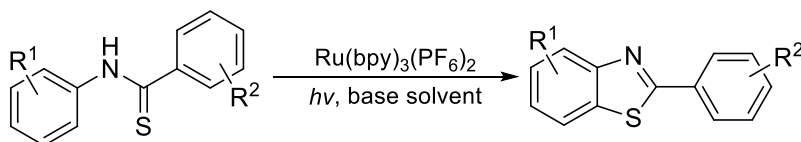


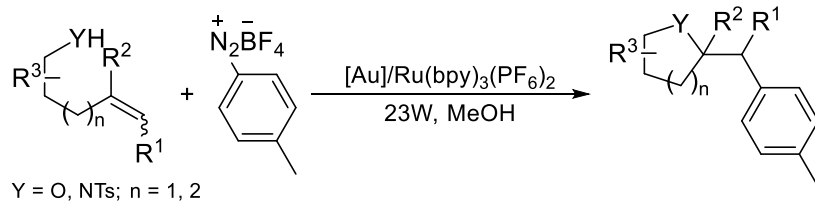
Catalog # 44-8033 Tris(2,2'-bipyridine)ruthenium(II) hexafluorophosphate, min. 97% Ru(bpy)₃(PF₆)₂

Technical Notes

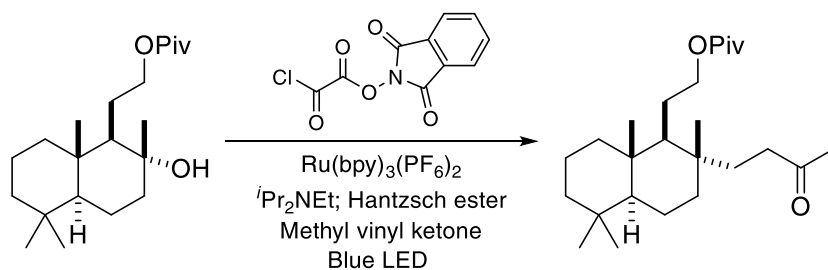
1. Photoredox catalysts for formation of 2-substituted benzothiazoles through radical cyclization of thioanilides.
2. Photoredox catalysis for Au-co-catalyzed oxy- and aminoarylation of alkenes.
3. Used for construction of quaternary carbons from tertiary alcohols via photoredox catalyzed fragmentation of *tert*-alkyl *N*-phthalimidoyl oxalates.
4. Photoredox catalyst for trifluoromethylation of aromatic alkenes using DMSO as an oxidizer.
5. Photoredox catalyst for Au-co-catalyzed expansion-oxidative arylation reaction.
6. Photoredox catalyst for chemoselective C(sp³)-C(sp²) coupling reactions via deboronative/decarboxylative alkenylation.
7. Used in photocatalytic radical trifluoromethylation/cyclization cascade to generate CF₃-containing pyrazolines and isoxazolines.
8. Photoredox catalyst for Au-co-catalyzed carbon-phosphorus cross-coupling reactions.
9. Used in base-free photoredox/nickel dual-catalytic cross-coupling of ammonium alkylsilicates
10. Photoredox catalyst for visible-light induced alcohol oxidation to generate alkoxy radicals using cyclic iodine(III) reagent catalysis, enabling further selective C(sp³)-C(sp³) bond cleavage and with subsequent alkylation/alkenylation.
11. Used in enantioselective photocatalytic [3+2] cycloadditions of aryl cyclopropyl ketones.
12. Photocatalyst for Lewis acid assisted β-selective reductive coupling of alkenylpyridines with aldehydes and imines.
13. Used in enantioselective crossed photocycloadditions of styrenic olefins by Lewis acid catalyzed triplet sensitization.
14. Photoredox catalyst for Ni-assisted thioarylation of unprotected peptides and biomolecules.
15. Photoredox catalyst for C-H trifluoromethoxylation of arenes and heteroarenes.
16. Used in the synthesis of sulfonated 1-isindolinones through a multicomponent reaction with the insertion of sulfur dioxide.
17. Photocatalyst for C-H arene amination with pyridyl radical cation.
18. Photoredox catalyst for intermolecular radical arylthiocyanation/arylselenocyanation of alkenes.



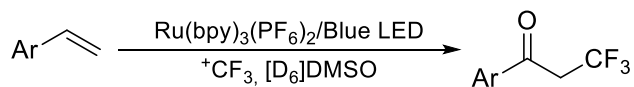
Tech. Note (1); Ref. (1)



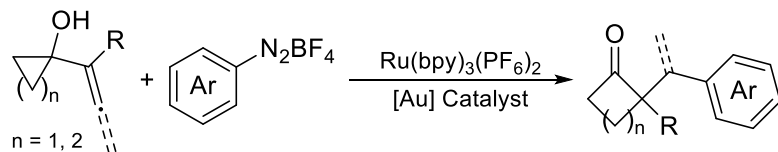
Tech. Note (2); Ref. (2)



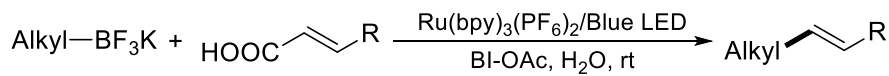
Tech. Note (3); Ref. (3)



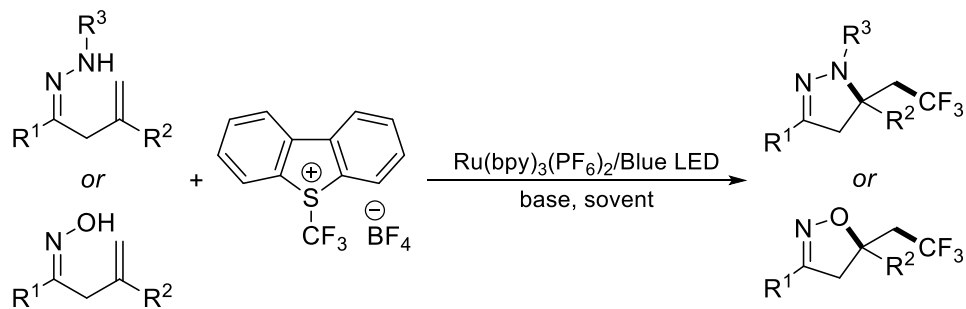
Tech. Note (4); Ref. (4)



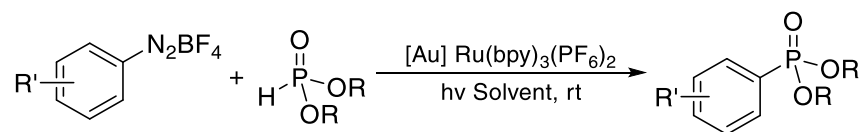
Tech. Note (5); Ref. (5)



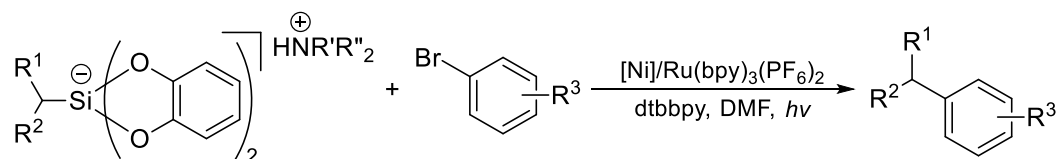
Tech. Note (6); Ref. (6)



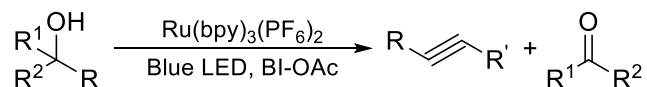
Tech. Note (7); Ref. (7)



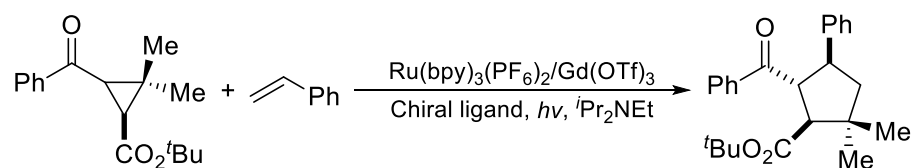
Tech. Note (8); Ref. (8)



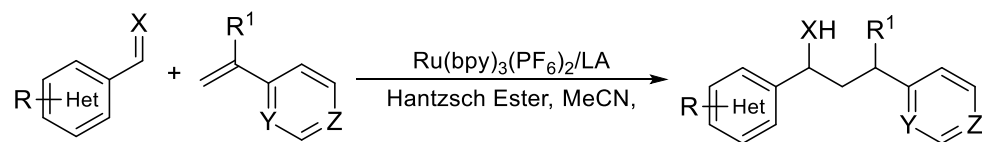
Tech. Note (9); Ref. (9)



Tech. Note (10); Ref. (10)

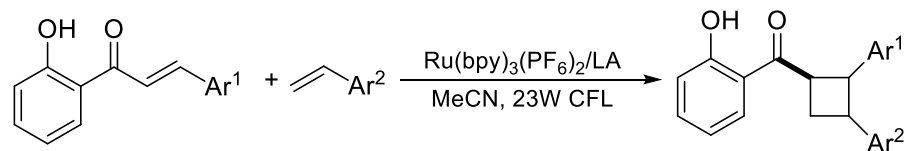


Tech. Note (11); Ref. (11)

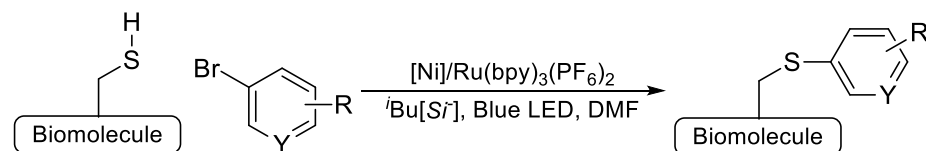


X = O or NPh; Y & Z = CH or N

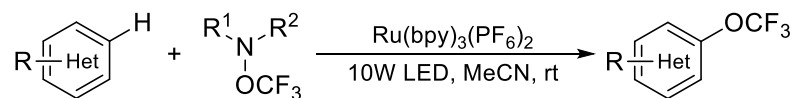
Tech. Note (12); Ref. (12)



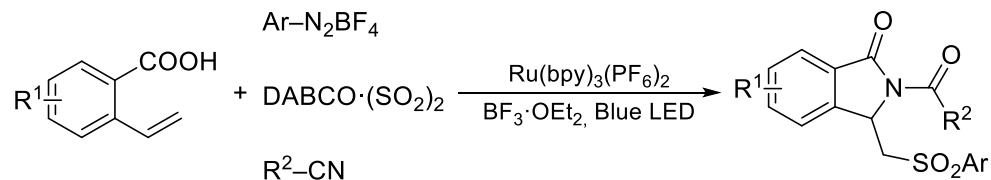
Tech. Note (13); Ref. (13)



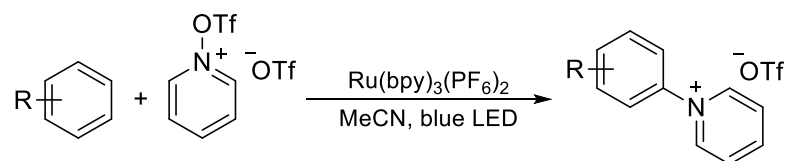
Tech. Note (14); Ref. (14)



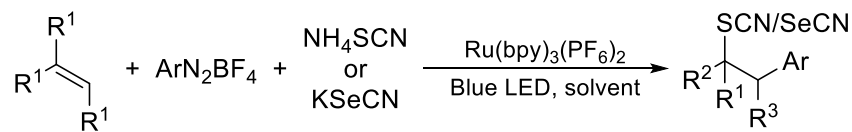
Tech. Note (15); Ref. (15)



Tech. Note (16); Ref. (16)



Tech. Note (17); Ref. (17)



Tech. Note (18); Ref. (18)

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