Strem Chemicals, Inc.

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Catalog # 44-7940

Tris[4,4'-bis(t-butyl)-2,2'-bipyridine]ruthenium(II) hexafluorophosphate, 95%

Technical Notes:

- Photoredox catalysed C-P bond formation reactions visible light mediated oxidative phosphonylations of amines.
- 2. Photoredox catalysis as an efficient tool for the aerobic oxidation of amines and alcohols.
- 3. Visible-light induced, direct synthesis of polysubstituted furans from cyclopropyl ketones.

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Me
$$H$$
 $Ar^{N}R$ $Ar^{N}R$

Ru catalyst $Ar^{1} \cap NH_{2} \xrightarrow{O_{2}} Ar^{1} \cap N \cap Ar^{1}$

OH O
 $R^{1}R^{2}$
 O
 O
 O
 O
 O
 O
 O
 O

Ruthenium cat.
Ar Visible light oxidative Ar O
$$R^3$$
 site selective Br R^3 Tech. Note. (3) Ref. (3)

References:

- 1. Chem. Commun., 2011, 47, 8679.
- 2 ACS Catalysis, 2012, 2, 2810.
- 3. J. Org. Chem., 2016, 81, 7008.