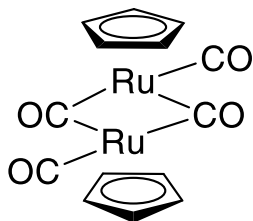


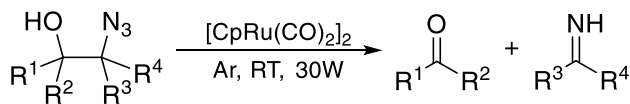
Catalog # 44-0175 Dicarbonylcyclopentadienylruthenium dimer, 99%



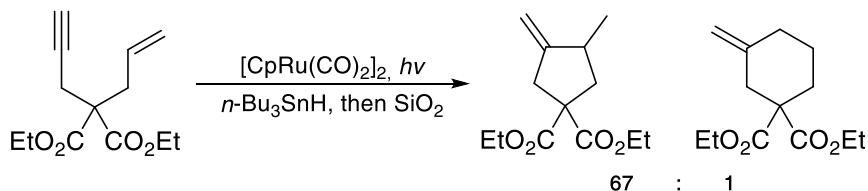
Catalysis Applications

Technical Notes:

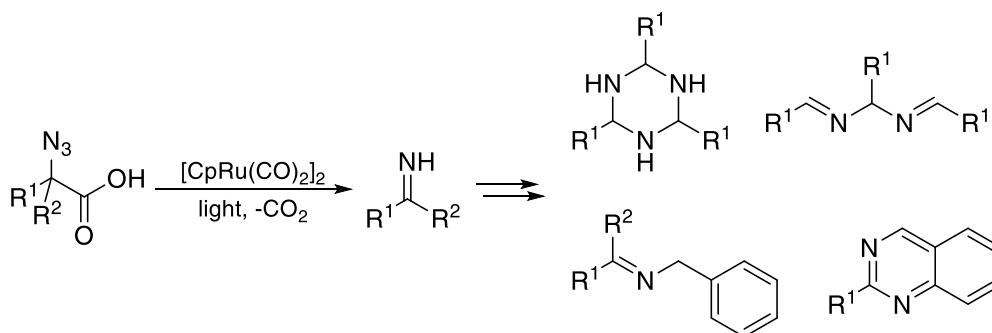
1. Photocatalyst used for the formation of N-H imines and carbonyl compounds simultaneously from β -hydroxy azides via C-C bond cleavage under visible light.
2. Photocatalyst used for the free radical cyclization reaction.
3. Used for the synthesis of N-H imines from α -azidocarboxylic acids through Ru-catalyzed decarboxylation.



Tech Note (1)
Ref. (1)



Tech Note (2)
Ref. (2)



Tech Note (3)
Ref. (3)

References:

1. [Org. Lett. 2020, 22, 4608.](#)
2. [Chem. Asian J. 2021, 16, 3909.](#)
3. [J. Org. Chem. 2021, 86, 17409.](#)

CVD/ALD Applications

Thermal Behavior:

- Sublimation: 180°C [1]
- Vapor pressure: 10 mTorr/100°C [1]

Technical Notes:

1. CVD precursor used for thin ruthenium film deposition.

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
Ru	CVD	130°C	1 Torr	O ₂	RT-600°C	1

References:

1. [Thin Solid Films, 2000, 376, 73.](#)