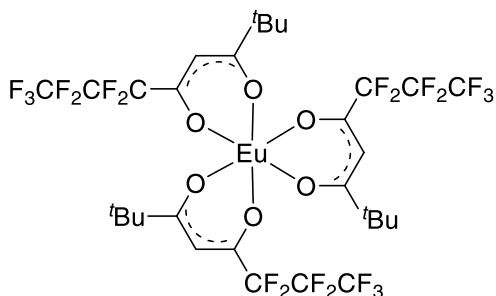


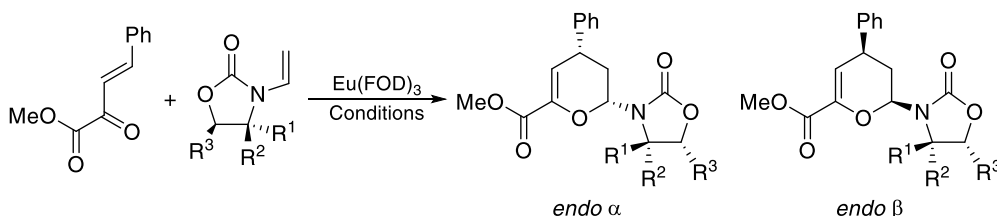
Catalog # 93-6326 Tris(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionate)europium(III) hydrate (99.9%-Eu) (REO) [Eu(FOD)3]



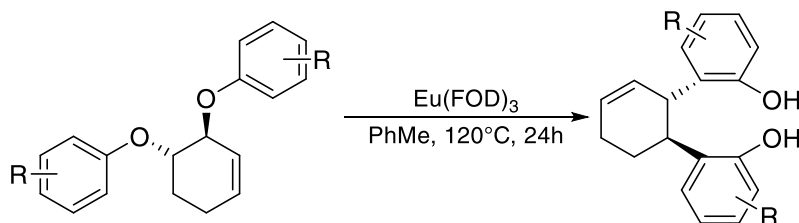
Catalysis Applications

Technical Notes:

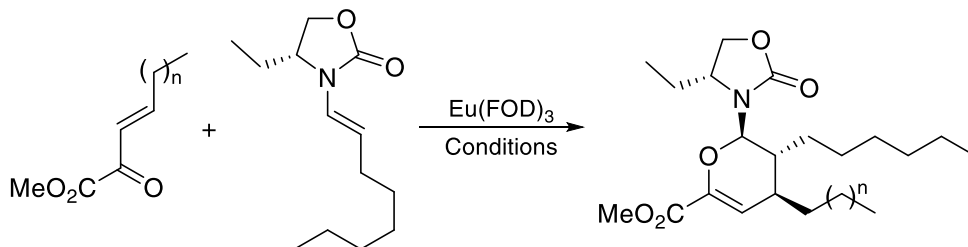
1. Catalyst for [4+2] heterocycloaddition of chiral *N*-vinylloxazolidinones.
2. Catalyst for domino aryl-claisen [3,3]-sigmatropic rearrangements for stereocontrolled synthesis of contiguous C(sp³)-C(aryl) bonds.
3. Catalyst for heterocycloaddition of chiral β-alkyl-*N*-vinyl-1,3-oxazolidin-2-ones with a heterodiene bearing a lipidic chain led to heterocycloadducts in high yield with excellent endo and facial selectivities.
4. Used in the Eu(fod)₃-catalyzed indole conjugate addition reaction, which tolerates various acid sensitive functional group.
5. Catalyst used in [3,3]-sigmatropic rearrangement of bromo-substituted allylic alcohols.
6. Used in total synthesis of the complex molecules for various natural products [6-8].



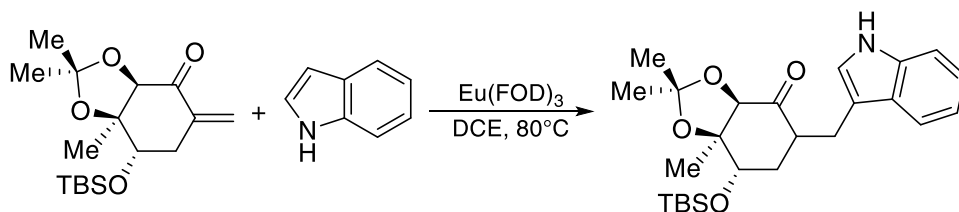
Tech Note (1)
Ref. (1)



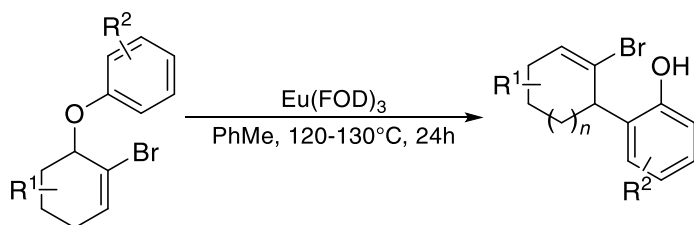
Tech Note (2)
Ref. (2)



Tech Note (3)
Ref. (3)



Tech Note (4)
Ref. (4)



Tech Note (5)
Ref. (5)

References:

1. [J. Org. Chem. 2004, 69, 4192.](#)
2. [Org. Lett. 2010, 12, 4446.](#)
3. [Eur. J. Org. Chem. 2012, 3727.](#)
4. [Chem. Asian J. 2015, 10, 869.](#)
5. [Synlett 2017, 28, 2865.](#)
6. [J. Org. Chem. 2021, 86, 14903.](#)
7. [J. Am. Chem. Soc. 2021, 143, 6370.](#)
8. [Angew. Chem. Int. Ed. 2022, 61, e202200420.](#)

CVD/ALD Applications

Thermal Behavior:

- Melting point: 205-212°C; decomp. (anhyd.); 63-67°C (monohyd.) [1]
- TGA data and diagram are available in [1]

Technical Notes:

1. Studied as a MOCVD precursor [2]

References:

1. [Inorg. Chem. 1967, 6, 1105.](#)
2. [Chem. Mater. 2009, 21, 5801.](#)