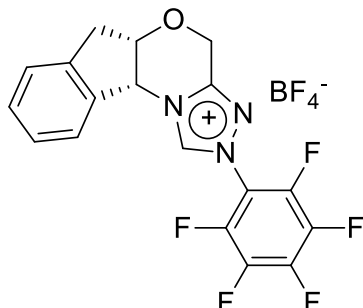
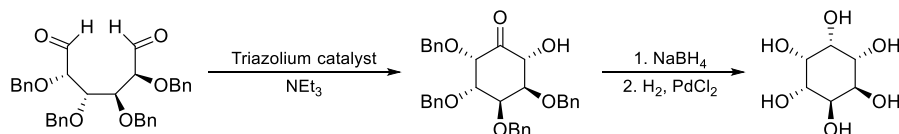


Catalog # 07-0414 (5a*S*,10*B*R)-(-)-5a,10*b*-Dihydro-2-(pentafluorophenyl)-4*H*,6*H*-indeno[2,1-*b*][1,2,4]triazolo[4,3-*d*][1,4]oxazinium tetrafluoroborate (contains 15-20% minor isomer)

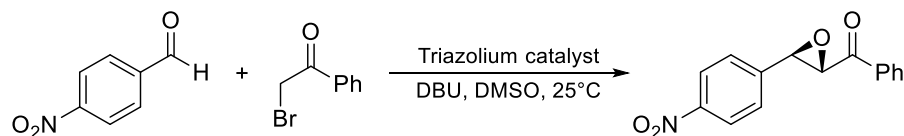


Technical Notes

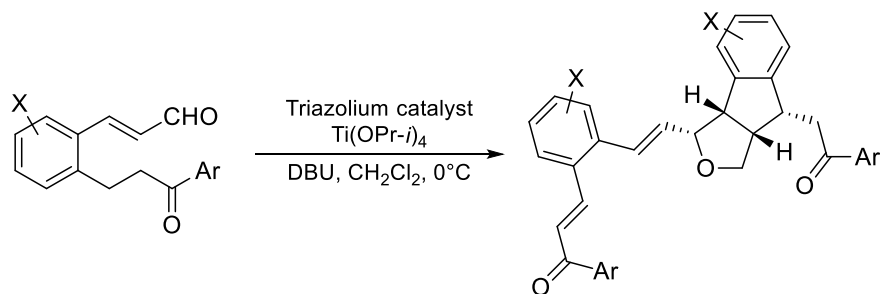
1. Used in triazolium-catalyzed carbocyclization of carbohydrate-derived dialdehydes to produce *allo*- and *epi*-inositol.
2. Triazolium catalyst for enantioselective Darzens reactions.
3. Catalyst for Lewis acid assisted reaction of 2-arylvinylnormaldehydes to produce indeno-[1,2-*c*]furan-1-one derivatives.
4. Catalyst for asymmetric desymmetrization of 1,3-Diketones via Intramolecular benzoin reaction.
5. Catalyst for asymmetric synthesis of spirobenzazepinones with atroposelectivity and spiro-1,2-diazepinones by [3+4] annulation reactions.
6. Catalysis for a highly enantioselective [4+2] annulation.



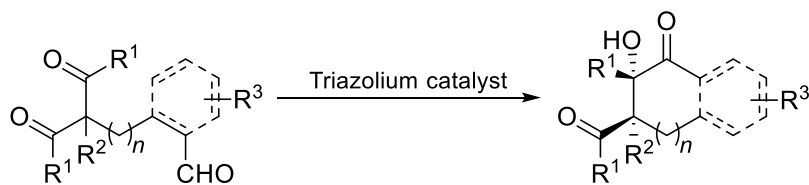
Tech. Note (1)
Ref. (1)



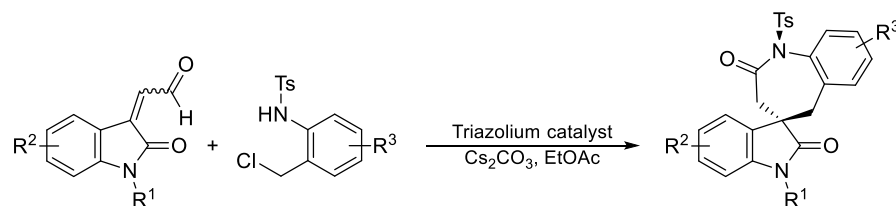
Tech. Note (2)
Ref. (2)



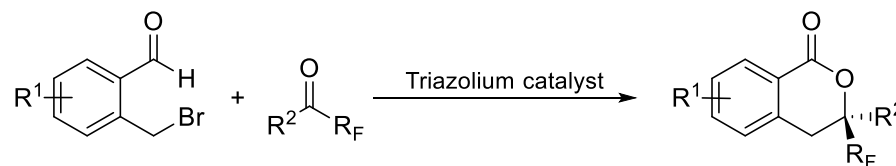
Tech. Note (3)
Ref. (3)



Tech. Note (4)
Ref. (4)



Tech. Note (5)
Ref. (5)



Tech. Note (6)
Ref. (6)

References:

1. *J. Org. Chem.*, **2014**, 79, 5088.
2. *Angew. Chem. Int. Ed.*, **2015**, 54, 14150
3. *Chem. Commun.*, **2016**, 52, 788.
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6. *Synth.*, **2017**, 49, 293.