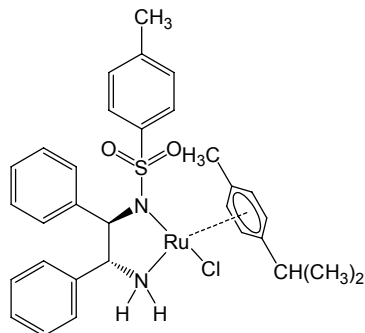


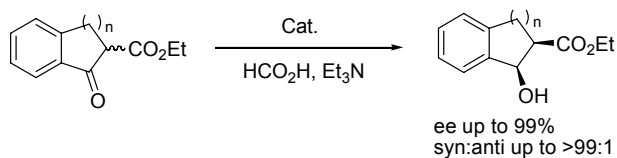
Catalog # 44-0148 Chloro{[(1R,2R)-(-)-2-amino-1,2-diphenylethyl](4-toluenesulfonylamido)}(p-cymene)ruthenium(II), min. 95% RuCl[(R,R)-Tsdpen](p-cymene)



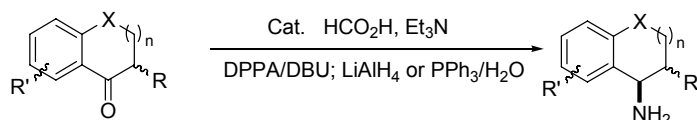
Note: Manufactured under license of Takasago patent US7129367B2. Takasago ATH Catalyst Kit component.

**Technical Note:**

1. This catalyst has shown to effect highly enantioselective hydrogenation of functionalized ketones where the substituents are dialkylamino, hydroxy, siloxy, carbonyl, ester, amide or thioester.

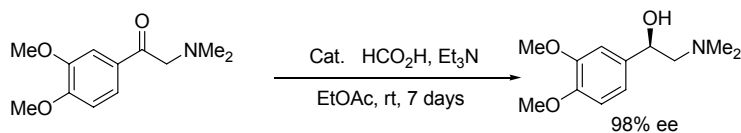


**Tech. Note (1)  
Ref. (1)**

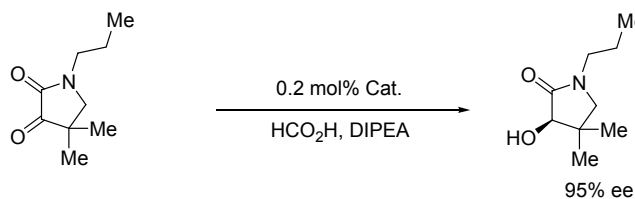


**Tech. Note (1)  
Ref. (2)**

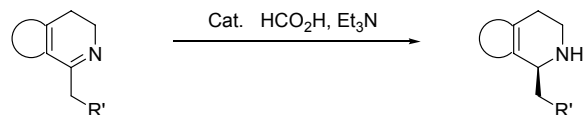
n = 0,1; R = alkyl, F, OAc; X = CH<sub>2</sub>, O



**Tech. Note (1)  
Ref. (3)**



**Tech. Note (1)  
Ref. (4-6)**



**Tech. Note (1)  
Ref. (7,8)**

**References:**

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