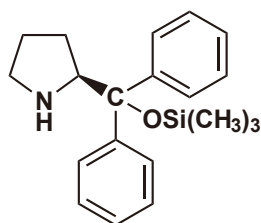


# Proline-type Organocatalysts

Since the first proline-catalyzed asymmetric synthesis was reported in 1971,<sup>1)</sup> a number of asymmetric syntheses using proline and derivatives have been developed. Proline-type organocatalysts are predominantly applicable to a wide assortment of asymmetric aldol reactions and asymmetric 1,4-additions, and see further use for the synthesis of natural products. TCI offers an assortment of high performing proline-derived organocatalysts that excel furnishing complex intermediates to meet your research needs.

1) U. Eder, G. Sauer, R. Wiechert, *Angew. Chem. Int. Ed.* **1971**, *10*, 496.

## Prolinol Derivatives

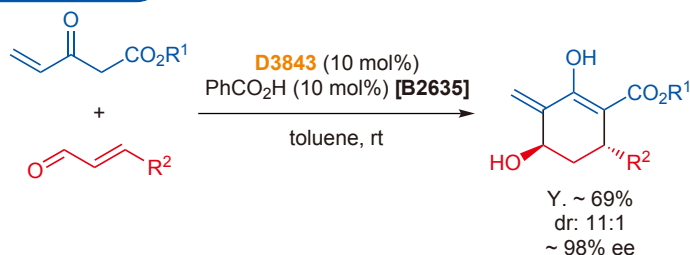


(S)-Hayashi-Jorgensen Catalyst

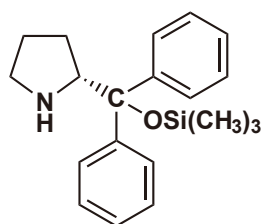
1g / 5g

**New** [D3843]

### Application



S. Cabrera, J. Alemán, P. Bolze, S. Bertelsen, K. A. Jorgensen, *Angew. Chem. Int. Ed.* **2008**, *47*, 121.

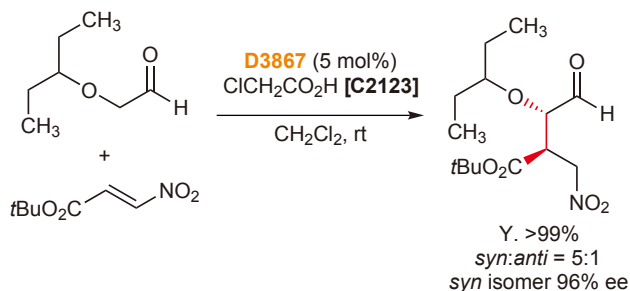


(R)-Hayashi-Jorgensen Catalyst

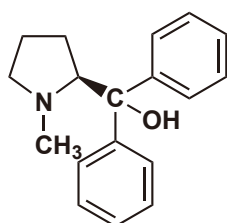
1g / 5g

**New** [D3867]

### Application



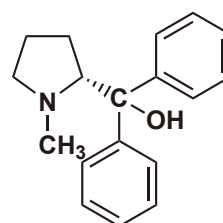
H. Ishikawa, T. Suzuki, Y. Hayashi, *Angew. Chem. Int. Ed.* **2009**, *48*, 1304.



(S)-(+)-2-[Hydroxy(diphenyl)methyl]-  
1-methylpyrrolidine

100mg / 1g / 5g

[H0768]

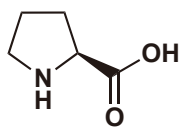


(R)-(-)-2-[Hydroxy(diphenyl)methyl]-  
1-methylpyrrolidine

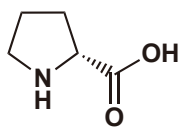
1g / 5g

[H0784]

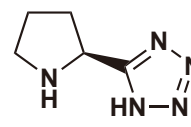
## Proline Derivatives



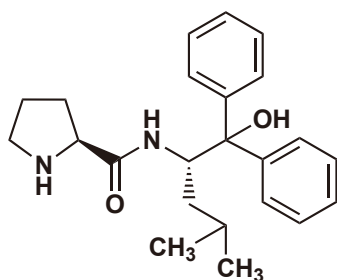
**L-Proline**  
25g / 250g  
[P0481]



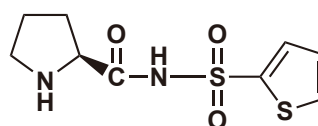
**D-Proline**  
5g / 25g  
[P0994]



**(S)-5-(Pyrrolidin-2-yl)-1H-tetrazole**  
100mg / 500mg  
[P1784]

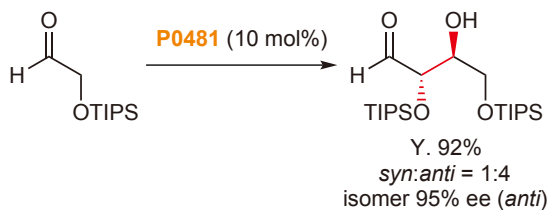


**Singh's Catalyst**  
200mg / 1g  
[H1407]

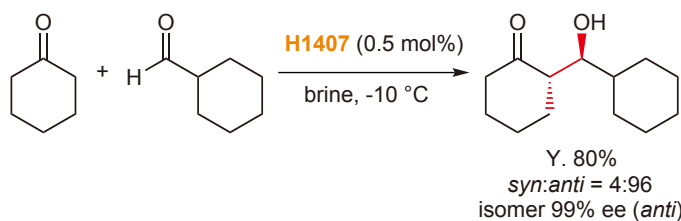


**N-(2-Thiophenesulfonyl)-L-prolinamide**  
100mg  
[T3080]

## Applications



A. B. Northrup, D. W. C. MacMillan, *Science* **2004**, 305, 1752.



V. Maya, M. Raj, V. K. Singh, *Org. Lett.* **2007**, 9, 2593.

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