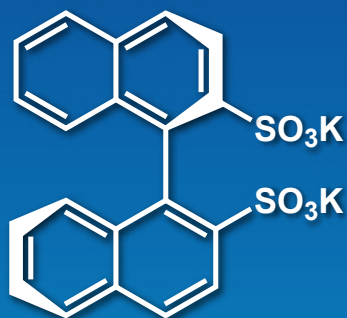


# Sulfonic Acid Catalyst Precursors for Asymmetric Synthesis

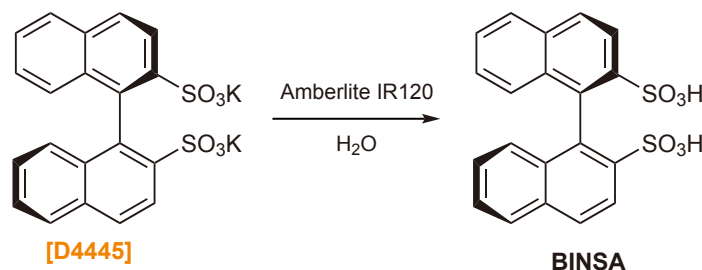


(*R*)-BINSA Dipotassium Salt  
[D4445]

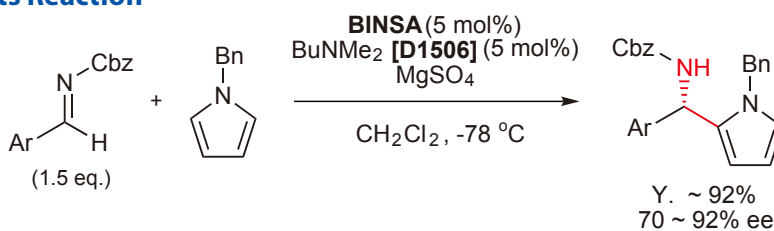
## Advantages

- Form the Chiral Sulfonic Acid (BINSA) by Treatment of Ion Exchange Resin
- Applicable to Asymmetric Aza-Friedel-Crafts and Asymmetric Strecker-type Reaction

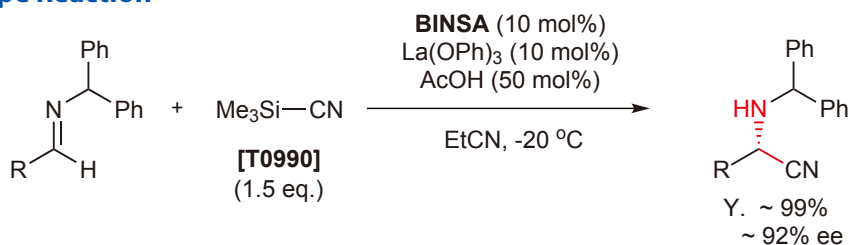
## Applications



### Asymmetric Aza-Friedel-Crafts Reaction<sup>1)</sup>



### Asymmetric Strecker-type Reaction<sup>2)</sup>



- 1) M. Hatano, Y. Sugiura, M. Akakura, K. Ishihara, *Synlett* **2011**, 1247.
- 2) M. Hatano, Y. Hattori, Y. Furuya, K. Ishihara, *Org. Lett.* **2009**, *11*, 2321.
- 3) Review
  - a) M. Hatano, K. Ishihara, *Asian J. Org. Chem.* **2014**, *3*, 352.
  - b) M. Hatano, K. Nishikawa, K. Ishihara, *TCIMAIL* **2014**, number 160, 2.

**D4445 Dipotassium (*R*)-1,1'-Binaphthyl-2,2'-disulfonate (= (*R*)-BINSA Dipotassium Salt)** 100mg

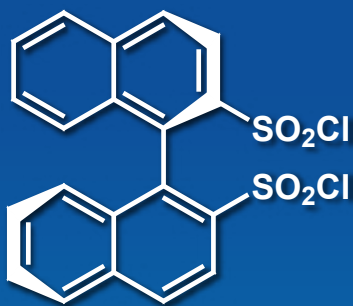
## Related Products

**D1506** *N*-Butyldimethylamine  
**T0990** Trimethylsilyl Cyanide

25mL / 500mL  
25mL / 100mL / 500mL



# Sulfonic Acid Catalyst Precursors for Asymmetric Synthesis

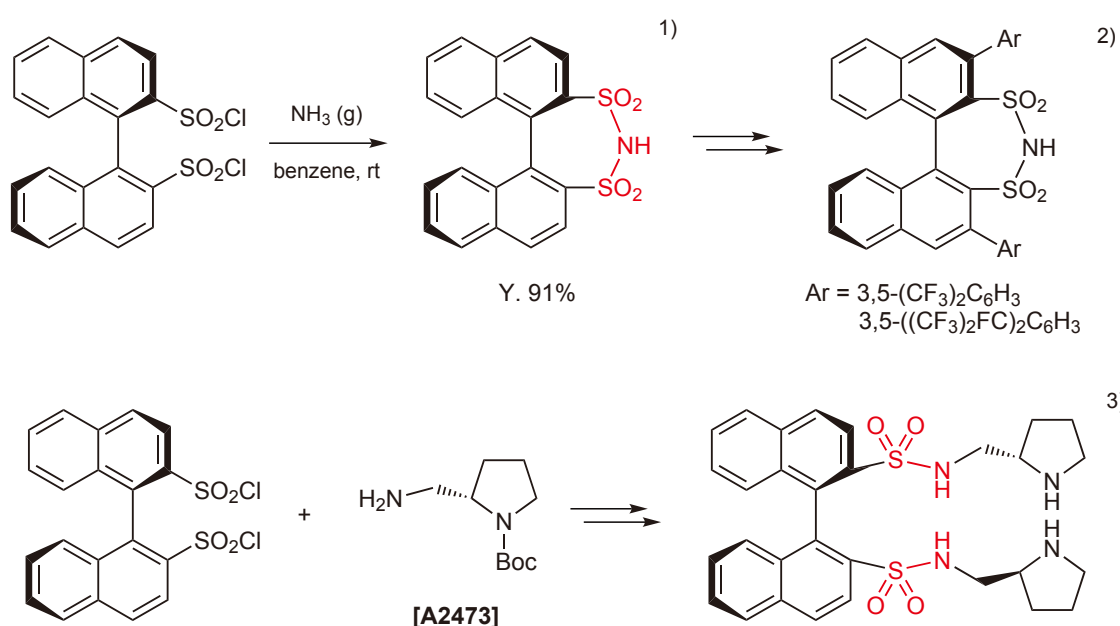


[B4187]

## Advantages

- Usable for the Synthesis of Tailor-made Axially Chiral Sulfonamides
- Chiral Sulfonamides Can Be Used as Catalysts for Asymmetric Aldol Reactions

## Applications



1) M. Treskow, J. Neudörfel, R. Giernoth, *Eur. J. Org. Chem.* **2009**, 3693.

2) P. García-García, F. Lay, P. García-García, C. Rabalakos, B. List, *Angew. Chem. Int. Ed.* **2009**, 48, 4363.

3) S. Ban, D.-M. Du, H. Liu, W. Yang, *Eur. J. Org. Chem.* **2010**, 5160.

**B4187** (R)-1,1'-Binaphthyl-2,2'-disulfonyl Dichloride

200mg / 1g

## Related Product

**A2473** (S)-2-(Aminomethyl)-1-(tert-butoxycarbonyl)pyrrolidine

1g

For further information please refer to our website at [www.TCIchemicals.com](http://www.TCIchemicals.com).



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