BioMed. Chem. **1994**, 2; 1

D-Aminoacylase from *Alcaligenes faecalis* Possesses Novel Activities on D-Methionine

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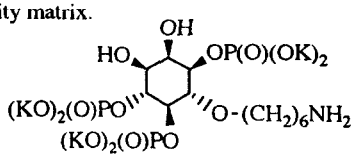
D-Aminoacylase isolated from *Alcaligenes faecalis* DA1 has a great potential for future application in D-amino acids production.

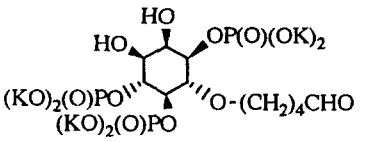
BioMed. Chem. **1994**, 2, 7

D-*MYO*-INOSITOL 1,4,5-TRISPHOSPHATE ANALOGUES AS USEFUL TOOLS IN BIOCHEMICAL STUDIES OF INTRACELLULAR CALCIUM MOBILIZATION

Da-Ming Gou, Woan-Ru Shieh, Pei-Jung Lu, and Ching-Shih Chen
Department of Pharmacognosy and EHS, College of Pharmacy
University of Rhode Island, Kingston, RI 02881

Two types of structural variants of Ins(1,4,5)P_3 were prepared. These 6-*O*-substituted derivatives retained the Ca^{2+}-mobilizing activity of the parent molecule, and served as precursors to Ins(1,4,5)P_3-based immunogens and affinity matrix.



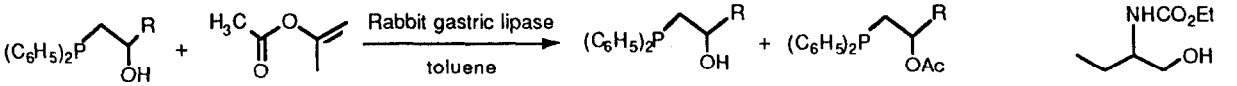


BioMed. Chem. **1994**, 2, 15

RABBIT GASTRIC LIPASE IN BIOCATALYTIC RESOLUTION OF 2-HYDROXYALKYL DIPHENYLPHOSPHINES.

Henri B. KAGAN, Maurice TAHAR and Jean-Claude FIAUD.
Laboratoire de Synthèse Asymétrique, URA CNRS 1497,Bât.420, Université Paris-Sud, 91405 Orsay Cedex, France.

Rabbit gastric lipase-catalyzed kinetic resolution of 2-hydroxyalkyldiphenylphosphines **4** by acylation with isopropenyl acetate **3** afforded optically active **4** and the corresponding acetate **5**. Resolutions of 1-(2-Naphthyl)ethanol and 2-[N-(Ethoxycarbonyl)amino]1-butanol **7** are also reported.



racemic-**4** **3** optically active-**4** optically active-**5** **7**

a : R = -CH_3 c : R = -*n*-C_3H_7 g : R = -CH_2-O-CH_3
b : R = -C_2H_5 d : R = -*i*-C_3H_7

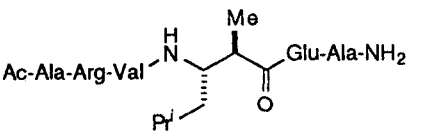
enantioselectivity factor E: 10-20

BioMed. Chem. **1994**, 2, 23

EVALUATION OF "NORPEPTIDES" AS POTENTIAL INHIBITORS OF HIV-PROTEASES

Kevin Burgess* and Biman Pal, Chemistry,Texas A & M University, College Station, TX 77843.

"Norpeptides" are peptide mimics wherein a crucial bond that would be cleaved by a protease has been deleted from the parent peptide substrate and not replaced by any other functionality. In this study, compound **1** and stereoisomeric materials were prepared, but they proved to be largely inactive as inhibitors of HIV-1 and HIV-2 proteases.

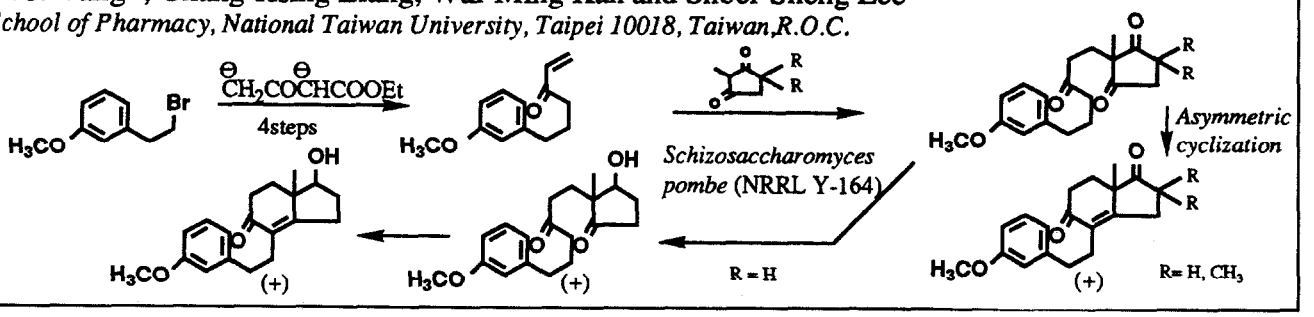


1

Synthesis of Steroid Intermediates via Alkylation of Dianion derived from Acetoacetic Ester

BioMed. Chem. **1994**, *2*, 27

K.C.Wang*, Chang-Hsing Liang, Wai-Ming Kan and Shoei-Sheng Lee
School of Pharmacy, National Taiwan University, Taipei 10018, Taiwan,R.O.C.



PROBING THE SPECIFICITY OF THE S_1 BINDING SITE OF SUBTILISIN CARLSBERG WITH BORONIC ACIDS.

BioMed. Chem. **1994**, *2*, 35

Peter Seufer-Wasserthal, Valeri Martichonok, Thomas H. Keller, Bain Chin, Richard Martin and J. Bryan Jones*

Department of Chemistry, University of Toronto, Lash Miller Laboratories, 80 St. George Street, Toronto, Canada M5S 1A1

A range of aryl and arylalkyl boronic acids has been prepared and evaluated as inhibitors of the serine protease subtilisin Carlsberg, with the goal of exploring the factors controlling binding to the S_1 site