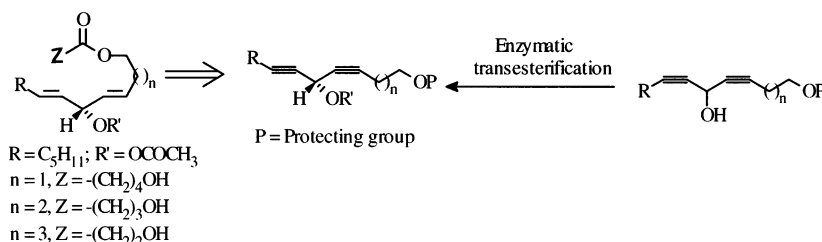


Design and synthesis of useful intermediates for novel lipoxygenase substrates through enzymatic resolution

J. S. Yadav,* S. Nanda and A. Bhaskar Rao

Organic Division, Indian Institute of Chemical Technology, Hyderabad-500007, India

Tetrahedron: Asymmetry 12 (2001) 53



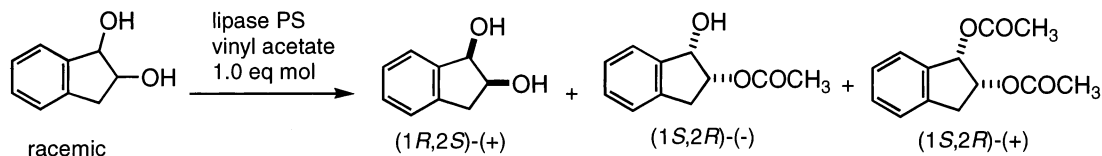
Lipase-mediated kinetic resolution of *cis*-1,2-indandiol and the Ritter reaction of its mono-acetate

Shigeru Nakano,^{a,*} Yoshio Igarashi^a and Hiroyuki Nohira^b

^aDepartment of Research and Development, Chemicea Inc., Shimokawa, Izumi-machi, Iwaki, Fukushima 971-8183, Japan

^bDepartment of Applied Chemistry, Faculty of Engineering, Saitama University, Urawa, Saitama 338, Japan

Tetrahedron: Asymmetry 12 (2001) 59

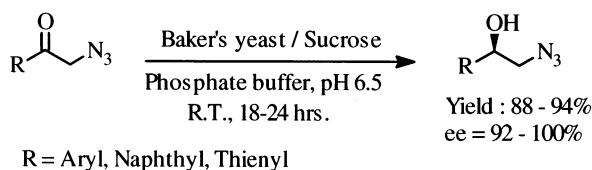


A facile synthesis of (*R*)-(-)-2-azido-1-arylethanols from 2-azido-1-arylketones using baker's yeast

J. S. Yadav,* P. Thirupathi Reddy, Samik Nanda and A. Bhaskar Rao

Indian Institute of Chemical Technology, Hyderabad 500 007, India

Tetrahedron: Asymmetry 12 (2001) 63



Highly diastereoselective alkylation, acylation and aldol condensation of *cis*- and *trans*-(*N*-acyloyl)hexahydrobenzoxazolidin-2-ones

Cecilia Anaya de Parrodi,^{a,*} Angel Clara-Sosa,^{a,b} Lydia Pérez,^{a,b} Leticia Quintero,^{b,*} Virginia Marañón,^{b,c} Rubén A. Toscano,^d Judit A. Aviña,^c Susana Rojas-Lima^c and Eusebio Juaristi^{c,*}

^aDepto. de Química y Biología, Universidad de las Américas-Puebla, Santa Catarina Mártir, 72820 Cholula, Mexico

^bCentro de Investigación de la Fac. de Ciencias Químicas, Universidad Autónoma de Puebla, 72570 Puebla, Mexico

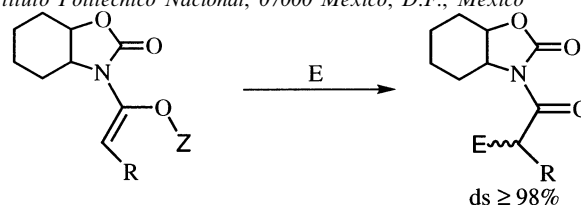
^cDepto. de Química, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, 07000 Mexico, D.F., Mexico

^dInstituto de Química, Universidad Nacional Autónoma de México, Ciudad Universitaria, 04510 Mexico, D.F., Mexico

^eCentro de Investigaciones Químicas, Universidad Autónoma del Estado de Hidalgo, 42076 Pachuca, Hidalgo, Mexico

Alkylation, acylation and aldol condensation reactions of *cis*- and *trans*-(*N*-acyloyl)hexahydrobenzoxazolidin-2-ones were realized with excellent diastereoselectivities, $\geq 98\%$. $R = CH_3$ or CH_2Ph . $Z = Na$ or BBu_2 .

$E = \text{Alkyl halides, aldehydes or acid chlorides.}$

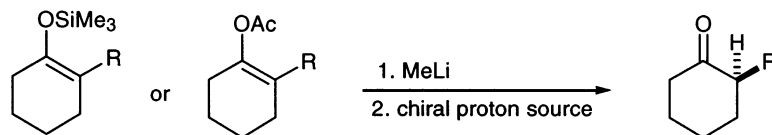
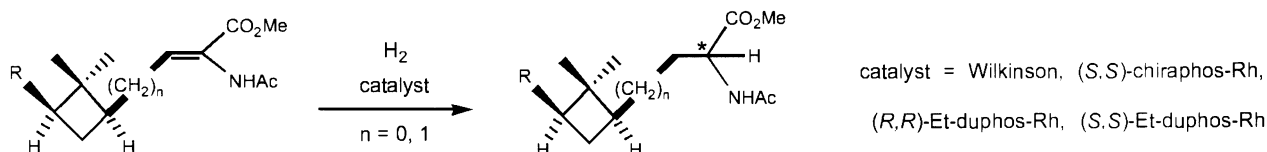


Tetrahedron: Asymmetry 12 (2001) 69

Recent advances into the enantioselective protonation of prostereogenic enol derivatives*Tetrahedron: Asymmetry 12 (2001) 1*

Jason Eames* and Neluka Weerasooriya

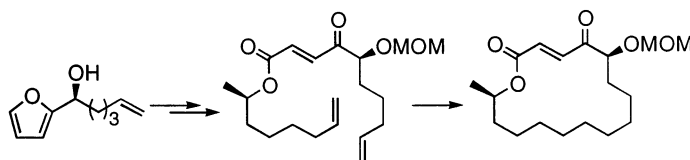
Department of Chemistry, Queen Mary, University of London, Mile End Road, London E1 4NS, UK

**On the stereoselective hydrogenation of chiral cyclobutyl dehydro-amino acid derivatives: influence of the catalyst in the π -facial diastereoselection***Tetrahedron: Asymmetry 12 (2001) 25*Gemma P. Aguado,^a Angel Alvarez-Larena,^b Ona Illa,^a Albertina G. Moglioni^{a,*} and Rosa M. Ortuño^{a,*}^aDepartament de Química, Universitat Autònoma de Barcelona, 08193 Bellaterra, Barcelona, Spain^bUnitat de Cristal·lografia, Universitat Autònoma de Barcelona, 08193 Bellaterra, Barcelona, Spain**A rapid formal synthesis of the macrolide (–)-A26771B***Tetrahedron: Asymmetry 12 (2001) 29*

Woo-Wha Lee, Hyun Jung Shin and Sukbok Chang*

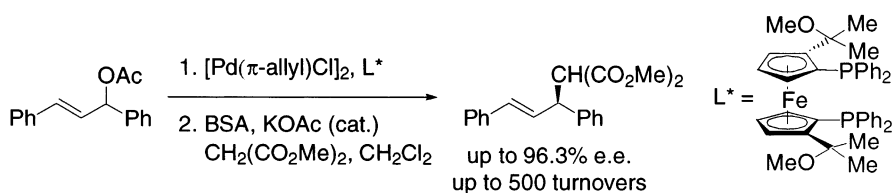
Department of Chemistry, Ewha Womans University, Seoul 120-750, South Korea

(–)-A26771B was formally synthesized, and the Ru-catalyzed RCN was used as a key synthesis reaction to construct the lactone ring.

**Preparation of a new FerroPHOS derivative for palladium-catalyzed asymmetric allylic alkylations***Tetrahedron: Asymmetry 12 (2001) 33*

Jahyo Kang,* Jun Hee Lee and Jung Sun Choi

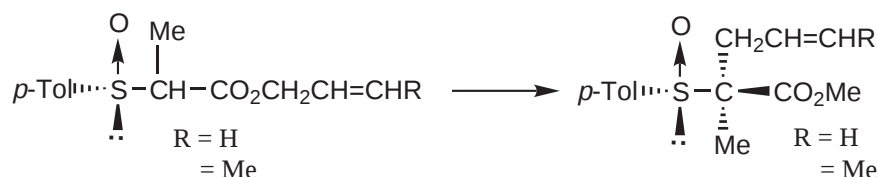
Department of Chemistry, Sogang University, Seoul 121-742, South Korea



Tetrahedron: Asymmetry 12 (2001) 37

Kunio Hiroi,* Yoshio Suzuki, Fumiko Kato and Yoshiko Kyo

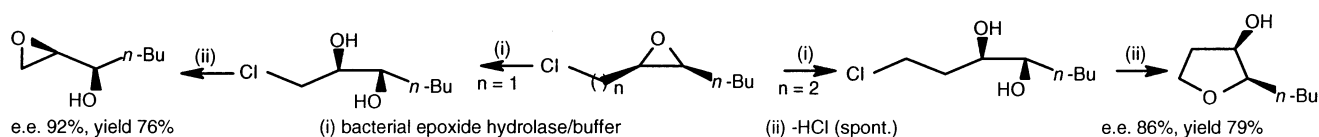
Department of Synthetic Organic Chemistry, Tohoku Pharmaceutical University, 4-4-1 Komatsushima, Aoba-ku, Sendai, Miyagi 981-8558, Japan



Tetrahedron: Asymmetry 12 (2001) 41

Sandra F. Mayer, Andreas Steinreiber, Romano V. A. Orru
and Kurt Faber*

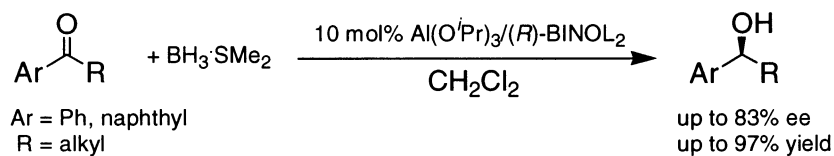
Department of Chemistry, Organic & Bioorganic Chemistry, University of Graz, Heinrichstrasse 28, A-8010 Graz, Austria



Tetrahedron: Asymmetry 12 (2001) 45

I-Pin Fu and Biing-Jiun Uang*

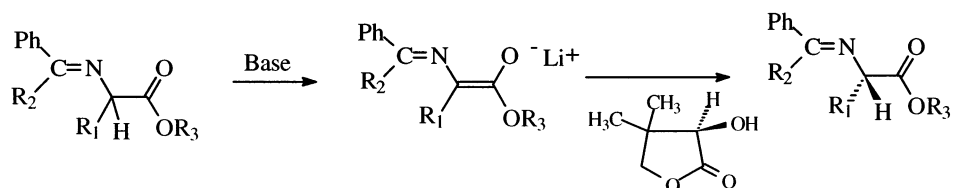
Department of Chemistry, National Tsing Hua University, Hsinchu, Taiwan 300, Republic of China



Tetrahedron: Asymmetry 12 (2001) 49

Monique Calmès,* Christèle Glot and Jean Martinez

Laboratoire des Aminoacides, Peptides et Protéines, UMR-CNRS 5810-Universités Montpellier I et II, UM II, Place E. Bataillon, 34095 Montpellier Cedex 5, France



Synthesis of the three isomeric mono-2-, 3-, or 6-hydroxy permethylated β -cyclodextrins and unambiguous high field NMR characterisation

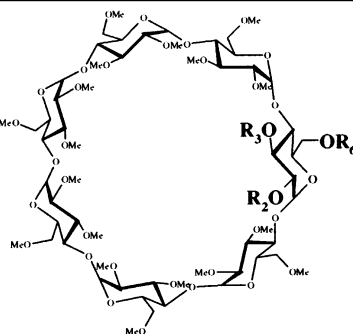
Tetrahedron: Asymmetry 12 (2001) 81

Hervé Cousin,^a Pascal Cardinael,^a Hassan Oulyadi,^b Xavier Pannecoucke^c and Jean Claude Combret^{a,*}

Université de Rouen, I.R.C.O.F., ^aUPRES EA 2659, Sciences et Méthodes Séparatives, ^bUMR 6014, Laboratoire RMN, ^cUMR 6014, Laboratoire d'Hétérochimie Organique, F-76821 Mont Saint Aignan Cedex, France

	R_2	R_3	R_6
2^{I-VI},3^{I-VII},6^{I-VII}-Eicosa-O-methyl-β-CD	H	Me	Me
2^{I-VII},3^{I-VI},6^{I-VII}-Eicosa-O-methyl-β-CD	Me	H	Me
2^{I-VII},3^{I-VII},6^{I-VI}-Eicosa-O-methyl-β-CD	Me	Me	H

The position of the free hydroxyl group was confirmed by ¹H and ¹³C NMR experiments and by methylation with ¹³C-labelled methyl iodide.



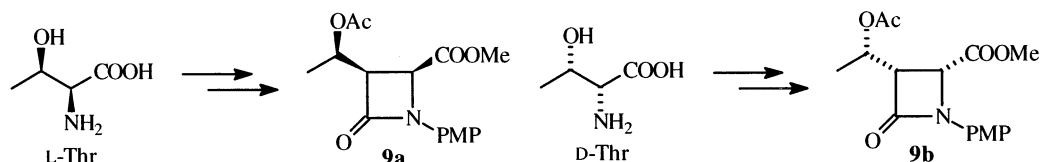
Synthesis of pure methyl [(2*S*,3*R*, α *R*)-1-(3-bromo-4-methoxyphenyl)-3-(α -acetoxy)ethyl-4-oxoazetidin-2-carboxylate] and its enantiomer

Tetrahedron: Asymmetry 12 (2001) 89

Zsuzsanna Sánta,^a László Párkányi,^b Ildikó Németh,^a József Nagy^a and József Nyitrai^{a,*}

^aInstitute for Organic Chemistry, Budapest University of Technology and Economics, H-1521 Budapest, Hungary

^bCentral Chemical Research Institute of Hungarian Academy of Sciences, H-1525 Budapest, Hungary

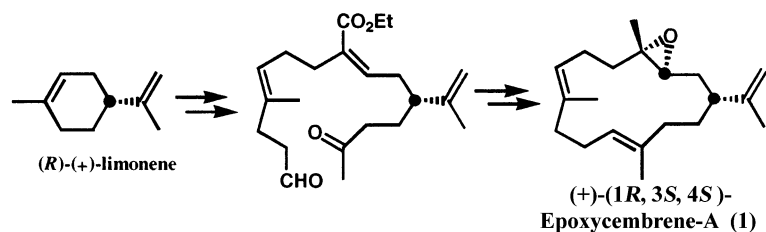


Enantioselective total synthesis of (+)-3,4-epoxycembrene-A

Tetrahedron: Asymmetry 12 (2001) 95

Zuosheng Liu, Weidong Z. Li* and Yulin Li*

National Laboratory of Applied Organic Chemistry and Institute of Organic Chemistry, Lanzhou University, Lanzhou, Gansu 730000, PR China

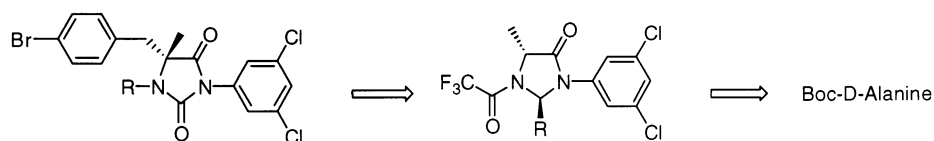


An improved synthesis of *N*-aryl-hydantoin LFA-1 antagonists via the enantiospecific alkylation of an isobutyraldehyde-derived imidazolidinone template

Tetrahedron: Asymmetry 12 (2001) 101

Rogelio P. Frutos,* Sandra Stehle, Laurence Nummy and Nathan Yee

Department of Chemical Development, Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road/PO Box 368, Ridgefield, CT 06877-0368, USA



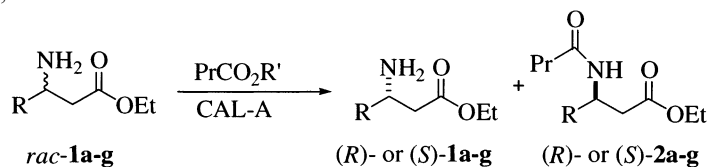
Preparation of highly enantiopure β -amino esters by *Candida antarctica* lipase A

Szilvia Gedey,^{a,b} Arto Liljeblad,^a László Lázár,^b
Ferenc Fülöp^b and Liisa T. Kanerva^{a,*}

^aDepartment of Chemistry and Laboratory of Synthetic
Drug Chemistry, University of Turku,
Lemminkäisenkatu 2, FIN-20520 Turku, Finland

^bInstitute of Pharmaceutical Chemistry, University of
Szeged, PO Box 121, H-6701 Szeged, Hungary

Highly enantioselective acylations catalyzed
by CAL-A were studied.



a: R=Me, **b:** R=Et, **c:** R=n-Pr, **d:** R=i-Pr, **e:** R=CH₂Et, **f:** R=cyclohexyl,
g: R=Ph, R'=CH₂CF₃ or Bu

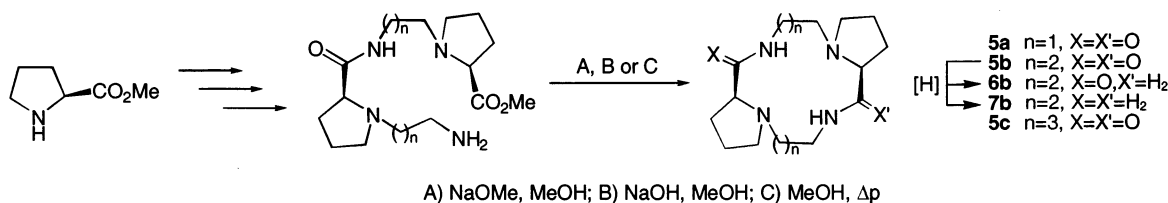
Tetrahedron: Asymmetry 12 (2001) 105

The synthesis of L-proline derived tetraazamacrocyclic ligands of C₂ symmetry via intramolecular ester aminolysis

Michał Achmatowicz^a and Janusz Jurczak^{a,b,*}

^aInstitute of Organic Chemistry, Polish Academy of Sciences, Kasprzaka 44/52, PL-01-224 Warsaw, Poland

^bDepartment of Chemistry, University of Warsaw, Pasteura 1, PL-02-093 Warsaw, Poland

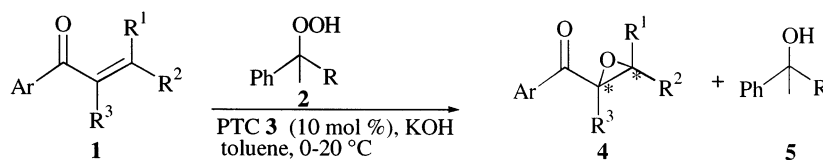


Tetrahedron: Asymmetry 12 (2001) 111

Asymmetric Weitz–Scheffer epoxidation of conformationally flexible and fixed enones with sterically demanding hydroperoxides mediated by optically active phase-transfer catalysts

Waldemar Adam,^{*} Paraselli Bheema Rao, Hans-Georg Degen and Chantu R. Saha-Möller

Institut für Organische Chemie, Universität Würzburg, Am Hubland, D-97074 Würzburg, Germany



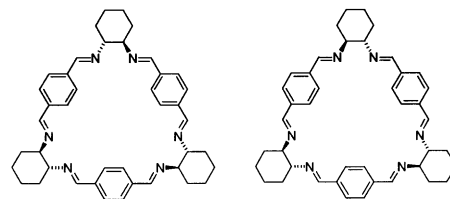
Tetrahedron: Asymmetry 12 (2001) 121

(3+3)-Cyclocondensation of the enantiopure and racemic forms of *trans*-1,2-diaminocyclohexane with terephthalaldehyde. Formation of diastereomeric molecular triangles and their stereoselective solid-state stacking into microporous chiral columns

Martin Chadim,^a Miloš Buděšínský,^a Jana Hodačová,^{a,*} Jiří Závada^a
and Peter C. Junk^b

^aInstitute of Organic Chemistry and Biochemistry, Academy of Sciences of the
Czech Republic, Flemingovo nám. 2, 166 10 Prague 6, Czech Republic

^bDepartment of Chemistry, James Cook University, Townsville, QLD 4811, Australia



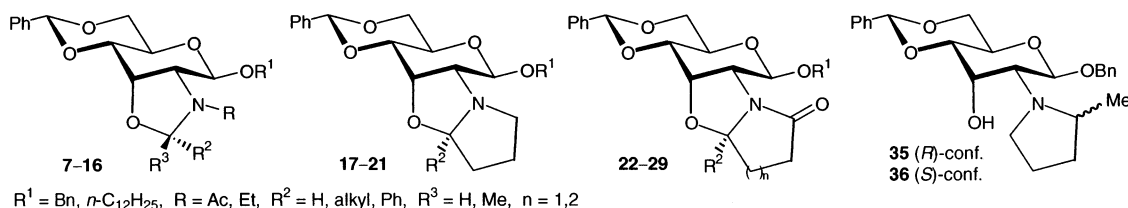
Tetrahedron: Asymmetry 12 (2001) 127

Stereoselective synthesis of oxazolidines from 2-amino-2-deoxy-D-allose derivatives and their reactivity with nucleophiles

Tetrahedron: Asymmetry 12 (2001) 135

José M. Vega-Pérez,^{*} Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra

Departamento de Química Orgánica y Farmacéutica, Facultad de Farmacia, Universidad de Sevilla, E-41071 Sevilla, Spain



A practical asymmetric synthesis of homochiral α -arylglycines

Tetrahedron: Asymmetry 12 (2001) 149

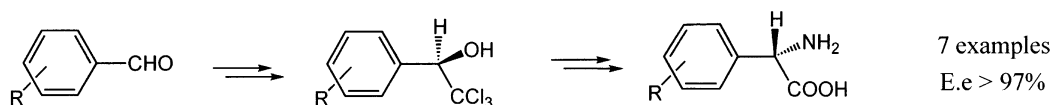
Christelle Mellin-Morlière,^{a,b} David J. Aitken,^{a,c,*} Steven D. Bull,^{b,d} Stephen G. Davies^b and Henri-Philippe Husson^a

^aLaboratoire de Chimie Thérapeutique associé au CNRS, Faculté des Sciences Pharmaceutiques et Biologiques, Université René Descartes, Paris V, 4 Avenue de l'Observatoire, 75270 Paris cedex, France

^bThe Dyson Perrins Laboratory, University of Oxford, South Parks Road, Oxford OX1 3QY, UK

^cLaboratoire SEESIB-CNRS, Département de Chimie, Université Blaise Pascal - Clermont-Ferrand II, 24 Avenue des Landais, 63177 Aubière cedex, France

^dDepartment of Chemistry, University of Bath, Claverton Down, Bath BA2 7AY, UK



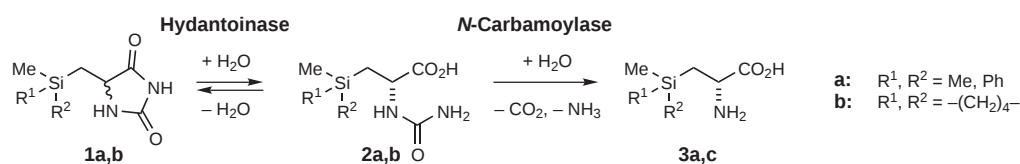
Enzymatic synthesis of enantiomerically enriched D- and L-3-silylated alanines by deracemization of DL-5-silylmethylated hydantoins

Tetrahedron: Asymmetry 12 (2001) 157

Richard J. Smith,^a Markus Pietzsch,^b Thomas Waniek,^b Christoph Syldatk^b and Stefan Bienz^{a,*}

^aInstitute of Organic Chemistry, University of Zurich, CH-8057 Zurich, Switzerland

^bInstitute of Biochemical Engineering, University of Stuttgart, D-70569 Stuttgart, Germany



Synthesis, characterization and resolution of racemic (2-methylsulfinyl)phenylphosphonic acid methyl ester via its cinchoninium salts

Tetrahedron: Asymmetry 12 (2001) 167

Christelle Mauger,^a Serge Masson,^a Michel Vazeux,^{a,*} Jean-François Saint-Clair,^b Wanda H. Midura,^c Josef Drabowicz^c and Marian Mikolajczyk^{c,*}

^aLaboratoire de Chimie Moléculaire et Thio-organique, UMR CNRS 6507 ISMRA, UFR Sciences, Université de Caen, 6 Bd Maréchal Juin, 14050 Caen Cedex, France

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^cCentre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Sienkiewicza 112, 90-363 Lodz, Poland

