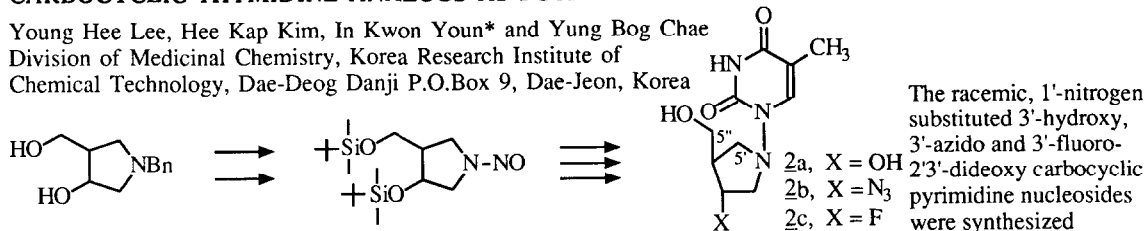


# GRAPHICAL ABSTRACTS

*BioMed. Chem. Lett.* **1991**, *1*, 287

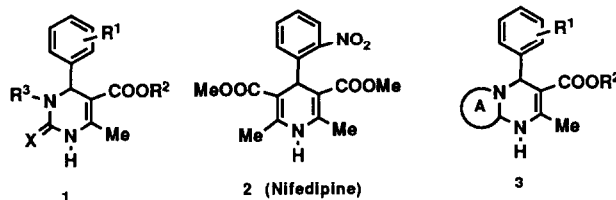
## SYNTHESIS OF NOVEL 1'-NITROGEN REPLACED CARBOCYCLIC THYMIDINE ANALOGS AS POTENTIAL ANTI AIDS AGENTS

Young Hee Lee, Hee Kap Kim, In Kwon Youn\* and Yung Bog Chae  
Division of Medicinal Chemistry, Korea Research Institute of  
Chemical Technology, Dae-Deog Danji P.O.Box 9, Dae-Jeon, Korea



*BioMed. Chem. Lett.* **1991**, *1*, 291

Dihydropyrimidine Calcium Channel Blockers 5<sup>1</sup>: Bicyclic Dihydropyrimidines As Potent Mimics Of Dihydropyridines  
Karnail S. Atwal\* and Suzanne Moreland, Bristol-Myers Squibb Pharmaceutical Research Institute, P. O. Box 4000, Princeton, N. J. 08543-4000. Bicyclic dihydropyrimidines 3 imitating the *in vitro* potency of dihydropyridine calcium channel blockers (e.g., nifedipine 2) are described.

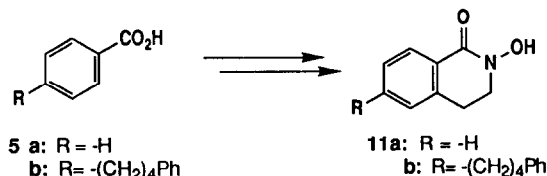


*BioMed. Chem. Lett.* **1991**, *1*, 295

## CYCLIC ARYL HYDROXAMIC ACIDS: SYNTHESIS AND INHIBITION OF 5-LIPOXYGENASE

Raj N. Misra\*, C. M. Botti, M. F. Haslanger, J.R. Engebrecht, E. M. Mahoney and C. P. Ciosek, Jr.  
Bristol-Myers Squibb Pharmaceutical Research Institute, PO Box 4000, Princeton, NJ 08543-4000

Cyclic aryl hydroxamic acids 11a,b were prepared from acids 5a,b and found to be significantly less potent as 5-LO inhibitors than their acyclic analogs suggesting that hydroxamic acids may be inhibiting 5-LO by a primary mechanism other than iron(III) chelation.



*BioMed. Chem. Lett.* **1991**, *1*, 299

## SYNTHESIS OF A TRI-PHOSPHORYLATED PEPTIDE CORRESPONDING TO THE MAJOR AUTOPHOSPHORYLATION SITE IN THE INSULIN RECEPTOR: CONFORMATIONAL COMPARISON WITH ITS NON-PHOSPHORYLATED ANALOGUE.

Alain Chavanieu,\* Hanitra Naharisoa,\* Frédéric Heitz,\* Bernard Calas,\* and Florin Grigorescu\*, Centre de Recherche de Biochimie Macromoléculaire, Unité 249 INSERM - Unité Propre 8402 CNRS, Centre National de la Recherche Scientifique, Route de Mende, BP 5051 34033 Montpellier Cedex, FRANCE and Laboratoire de Physicochimie des Systèmes Polyphasés, Unité de Recherche Associée 330 CNRS, Centre National de la Recherche Scientifique, Route de Mende, BP 5051 34033 Montpellier Cedex, FRANCE.

**Abstract:** Using FmocTyrO(PO<sub>3</sub>Bz)<sub>2</sub>, we synthesized and purified a triphosphorylated peptide corresponding to the major autophosphorylation site of the insulin receptor. By CD spectroscopy, conformational comparison of the phosphorylated peptide with its non-phosphorylated analogue showed a rigidification of the peptide backbone when the aromatic side chains bear negatively charged groups.

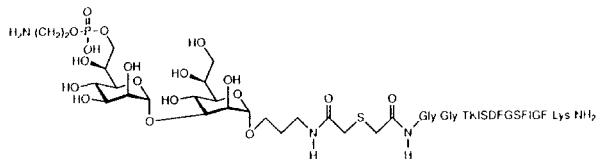
**PREPARATION OF A WELL-DEFINED SUGAR-PEPTIDE CONJUGATE: A POSSIBLE APPROACH TO A SYNTHETIC VACCINE AGAINST *NEISSERIA MENINGITIDIS***

G.J.P.H. Boons\*, P. Hoogerhout†, J.T. Poolman†, G.A. van der Marel\* and J.H. van Boom\*

\* *Gorlaeus Laboratories, P.O. Box 9502, 2300 RA Leiden, The Netherlands*

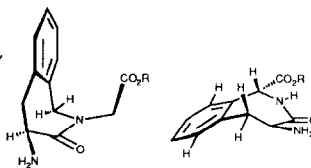
† *RIVM, Unit for Bacterial Vaccine Development, P.O. Box 1, 3720 BA Bilthoven, The Netherlands*

Sugar-Peptide conjugate



**AN ACYLIMINIUM ION ROUTE TO *CIS* AND *TRANS* "ANTI" Phe-Gly DIPEPTIDE MIMETICS**

Gary A. Flynn\*, Timothy P. Burkholder, Edward W. Huber, and Philippe Bey  
 Marion Merrell Dow Research Institute, 2110 E. Galbraith Rd.,  
 Cincinnati, Ohio 45215



THE FUNCTION OF  $S_1'$  SUBSITE POCKET OF CARBOXYPEPTIDASE A

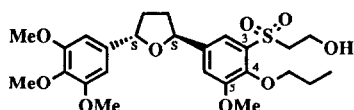
Dong H. Kim and Kyung Bo Kim

Department of Chemistry, POSTECH, P.O.Box 125, Pohang 790-600, Korea

In the binding of a ligand to Carboxypeptidase A, no hydrophobic interactions appear to be involved between the  $S_1'$  subsite and the side chain of the C-terminal amino acid of the ligand. Rather the side chain is held inside the pocket physically by the aromatic ring of Tyr-248.

SYNTHESIS AND BIOLOGICAL ACTIVITY OF MK 287 (L-680,573): A POTENT, SPECIFIC

AND ORALLY ACTIVE PAF RECEPTOR ANTAGONIST. Soumya P. Sahoo\*, Donald W. Graham, John Acton, Tesfaye Biftu, Robert L. Bugianesi, Narindar N. Girotra, Chan-Hwa Kuo, Mitree M. Ponpipom, Thomas W. Doebber, Margaret S. Wu, San-Bao Hwang, My-Hanh Lam, D. Euan MacIntyre, Thomas J. Bach, Silvi Luell, Roger Meurer, Philip Davies, Alfred W. Alberts and John C. Chabala. Merck Sharp & Dohme Research Laboratories, P.O. Box 2000, Rahway, NJ 07065



MK 287 (L-680,573)

An enantioselective synthesis of MK 287 (L-680,573), a member of a family of *trans*-2,5-diaryltetrahydrofurans, and its biological activity are described.