GRAPHICAL ABSTRACTS

SYNTHESIS OF DI- TO PENTA-SACCHARIDES RELATED

BioMed. Chem. 1993, 1, 237

TO THE O-SPECIFIC POLYSACCHARIDE OF SHIGELLA

DYSENTERIAE TYPE 1, AND THEIR NUCLEAR MAGNETIC RESONANCE STUDY

Vince Pozsgaya,b,*, Bruce Coxonc, and Herman Yeh National Institutes of Health, ANICHD and bNIDDK, Bethesda, MD, and CNational Institute of Standards and Technology, Gaithersburg, MD, U.S.A.

Di- to penta-saccharide methyl glycosides corresponding to the O-polysaccharide (A) of the LPS of Shigella dysenteriae type 1 were synthesized.

DEFINITION OF Α PHARMACOPHORE FOR THE METABOTROPIC GLUTAMATE RECEPTORS NEGATIVELY LINKED TO ADENYLYL CYCLASE

BioMed. Chem. 1993, 1, 259

Gabriele Costantino #, Benedetto Natalini #, Roberto Pellicciari #

Istituto di Chimica Fermaceutica e Tecnica Fermaceutica. Università degli Studi di Perugia, Via del Liceo, 1; 06123 PERUGIA, ITALY Flavio Moroni[§] , Grazia Lombardi[§]

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A conformational analysis has been carried out on the two conformationally restrained L-Giu analogs 2 and 3. The data obtained have then been instrumental to define a pharmacophore model for the mGiuR↓cAMP receptor subtype.

- ೦೦೨ 'NH₂+ 3

FLUORESCENT CHEMOSENSING OF CATECHOL AND CATECHOLAMINES IN WATER

BioMed. Chem. 1993, 1, 267

Juyoung Yoon and Anthony W. Czarnik', Department of Chemistry, Ohio State University, Columbus, OH

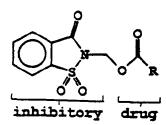
2-Anthrylboronic acid complexes catechol in water with K_d 330 μM and concomitant 20-fold reduction in fluorescence intensity; L-DOPA and dopamine behave similarly.

 $K_{c} = 0.33 \text{ mM}$

Dual-Action Inhibitors of Proteolytic Enzymes: Potential Therapeutic Agents for Cystic Fibrosis and Related Ailments

W.C. Groutas*, H. Huang, R. Venkataraman, N. Houser-Archield, J.B. Epp Department of Chemistry, Wichita State University, Wichita, KS 67260-0052

A series of dual-action compounds has been synthesized and shown to be efficient inhibitors of neutrophil elastase. BioMed. Chem. 1993, 1, 273



component

BioMed. Chem. 1993, 1, 279

GLYCOSYL-OXYCARBONYLAMINOSULFONYL-2',3'-DIDEOXYNUCLEOSIDE

DERIVATIVES AS LIPOPHILIC NUCLEOTIDE MIMICS. SYNTHESIS AND ANTI-HIV ACTIVITY

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1-Benzazepin-2-one Calcium Channel Blockers. VI. Receptor-Binding Model and Possible Relationship to Desmethoxyverapamil.

S. David Kimball*, John T. Hunt, Joel C. Barrish, Jagabandhu Das, David M. Floyd, Michael W. Lago, Ving G. Lee, Steven H. Spergel, Suzanne Moreland, S. Anders Hedberg, Jack Z. Gougoutas*, Mary F. Malley, Wan F. Lau Bristol-Myers Squibb Pharmaceutical Research Institute Princeton, New Jersey 08543-4000

Conformationally constrained benzazepinones 1 were prepared to establish the receptor bound conformation of 1 and diltiazem (2). Active analogs can place the methyl ether and amine pharmacophores in close apposition, approximately the same distance apart as in 3-methoxy phenylethylamine.

BioMed. Chem. 1993, 1, 285

Conformationally Constrained Calcium Channel Blockers: Novel Mimics of 1-Benzazepin-2-ones

Joel C. Barrish*, Steven H. Spergel, Suzanne Moreland, Gary Grover,

S. Anders Hedberg, Andrew T. Pudzianowski, Jack Z. Gougoutas, and Mary F. Malley

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Conformationally constrained bicyclo[2.2.2]octyl amines, represented by 3c, were prepared as mimics of the putative receptor binding conformation of calcium channel blockers related to diltazem.

BioMed. Chem. 1993, 1, 309