

ARKIVOC Volume 2003

Part (viii): Commemorative Issue in Honor of Prof. Keiichiro Fukumoto on the occasion of his 70th anniversary

Facilitator: Masataka Ihara
Scientific Editor: Anthony Waring

1. A Tribute to Prof. Keiichiro Fukumoto (KF-476HT)

Masataka Ihara

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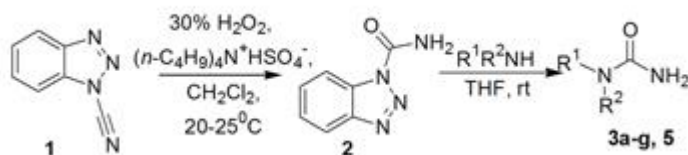
accepted Jan 28 2003; published Feb 17 2003;

2. Synthesis of mono and *N,N*-disubstituted ureas (KF-627HP)

Alan R. Katritzky, Nataliya Kirichenko and Boris V. Rogovoy

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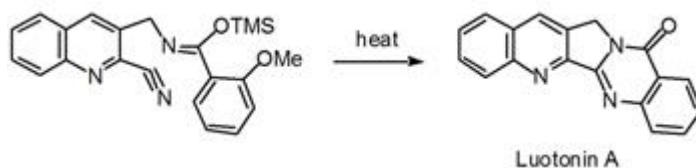
received Dec 9 2002; accepted Feb 12 2003; published Mar 4 2003;

3. An efficient total synthesis of the pyrroquinazolinoquinoline alkaloid, Luotonin A, employing an intramolecular hetero Diels–Alder reaction (KF-662HP)

Masahiro Toyota, Chiyo Komori and Masataka Ihara

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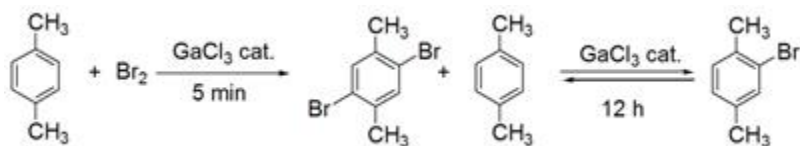
received Jan 24 2003; accepted Apr 28 2003; published May 2 2003;

4. One-pot aromatic bromination-rearrangement catalyzed by GaCl₃ (KF-730HP)

Mieko Arisawa, Atsushi Suwa, Masanori Ashikawa and Masahiko Yamaguchi

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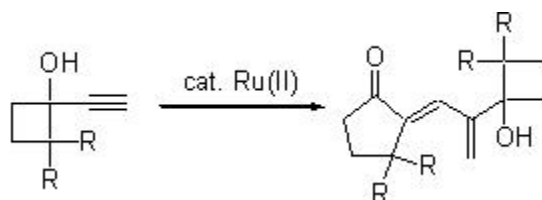
received Mar 8 2003; accepted May 26 2003; published May 29 2003;

5. Ruthenium catalyzed dimerization- $\hat{\text{A}}$ -ring expansion reaction of acetylenylcyclobutanols (KF-698HP)

Masahiro Yoshida, Kenji Sugimoto and Masataka Ihara

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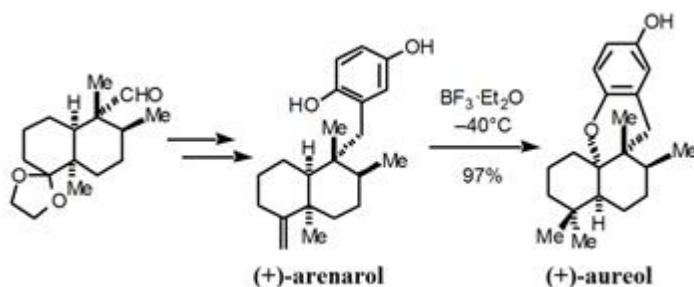
received Feb 20 2003; accepted Jun 2 2003; published Jun 5 2003;

6. Enantioselective total synthesis of (+)-aureol via BF₃•Et₂O-promoted rearrangement/cyclization reaction of (+)-arenarol (KF-761HP)

Mari Nakatani, Masahiko Nakamura, Akiyuki Suzuki, Takamasa Fuchikami, Munenori Inoue and Tadashi Katoh

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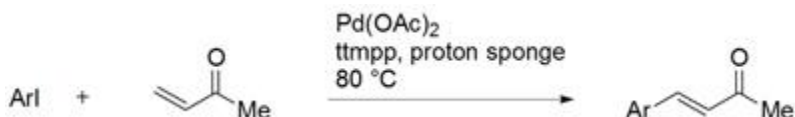
received May 16 2003; accepted Jun 19 2003; published Jun 21 2003;

7. Phosphine ligands and nitrogen bases in the solvent-free Heck reaction of butenone with aryl iodides. A highly selective synthesis of benzalacetones (KF-764HP)

Sandro Cacchi, Giancarlo Fabrizi and Antonella Goggiani

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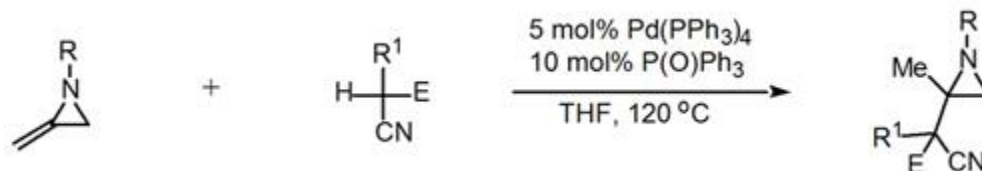
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8. Catalytic and thermal hydrocarbonation of methyleneaziridines (KF-762HP)

Byoung Ho Oh, Itaru Nakamura and Yoshinori Yamamoto

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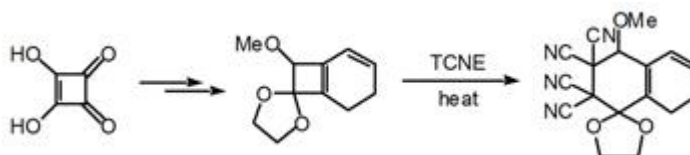
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9. Synthesis of transient functionalized dienes by electrocyclic ring-opening of cyclobutene derivatives (KF-765HP)

Yuji Matsuya, Kazushige Sasaki and Hideo Nemoto

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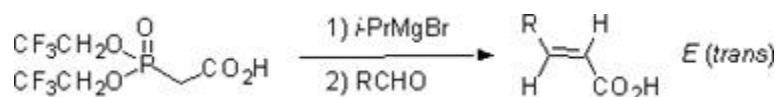
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10. (*E*)-Selective Horner–Wadsworth–Emmons reaction of aldehydes with *bis*-(2,2,2-trifluoroethyl)phosphonoacetic acid (KF-777HP)

Shigeki Sano, Yuka Takemoto and Yoshimitsu Nagao

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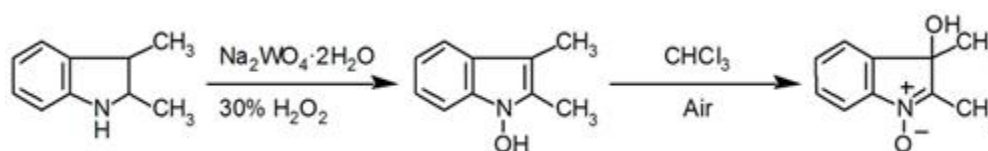
received May 29 2003; accepted Jun 30 2003; published Jul 14 2003;

11. The first preparation of the unstable 1-hydroxy-2,3-dimethylindole, and structural determination of its air-oxidized product, 3-hydroxy-2,3-dimethyl-3*H*-indole *N*-oxide (KF-770HP)

Fumio Yamada, Atsuko Kawanishi, Akiko Tomita and Masanori Somei

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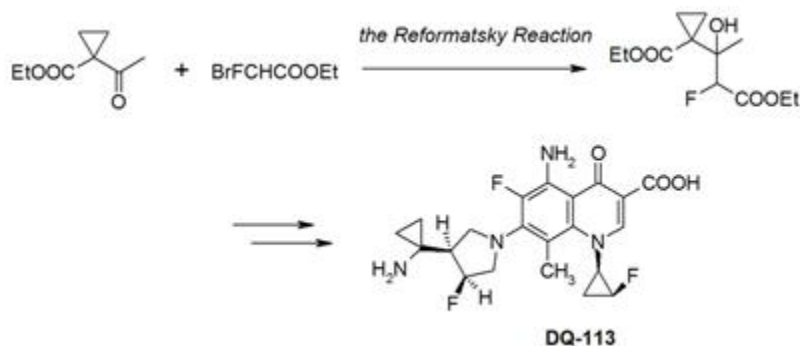
received May 25 2003; accepted Jul 6 2003; published Jul 16 2003;

12. Improved synthesis of DQ-113, a new quinolone antibacterial agent, utilizing the Reformatsky reaction (KF-772HP)

Hiroaki Inagaki, Kazuyuki Sugita, Rie N. Miyauchi, Satoru Miyauchi, Toshiyuki Takeda, Masao Itoh, Hisashi Takahashi and Makoto Takemura

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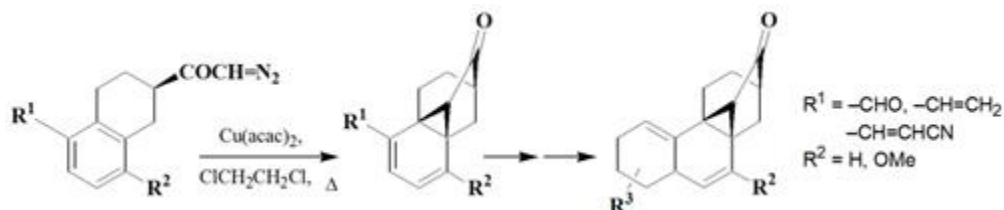
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13. Further investigations into the preparation and [4+2] cycloaddition reactions of vinyl norcaradiene derivatives (KF-795HP)

Lisa A. Buttle, Jonathan C. Morris and Lewis N. Mander

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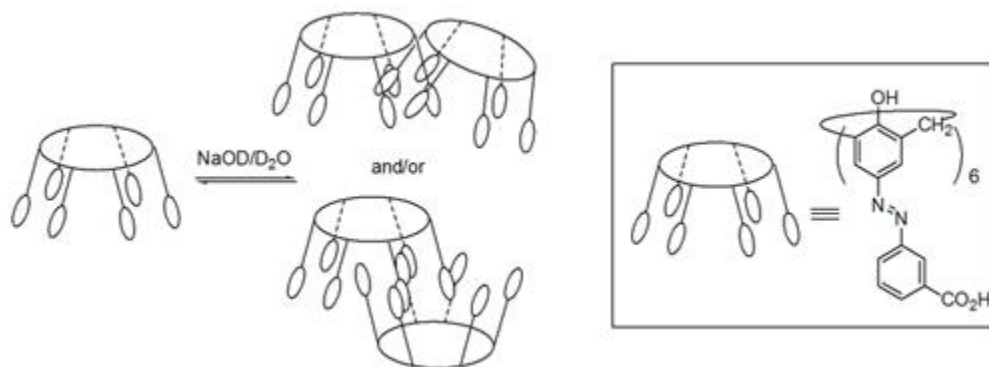
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14. Molecular dynamics of amphiphilic calixarene (KF-771HP)

Yuji Tokunaga, Hiromasa Sakon, Hirokazu Kanefusa, Youji Shimomura and Kiyoshi Suzuki

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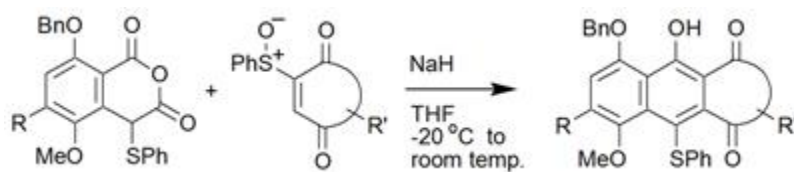
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15. Synthesis of *p*-phenylthio- *peri*-hydroxy polyaromatic compounds by strong-base-induced [4+2] cycloaddition of 4-(phenylthio)homophthalic anhydrides with phenylsulfinyl- dienophiles (KF-776HP)

Kiyosei Iio, Akiko Okajima, Yoshifumi Takeda, Ken-ichi Kawaguchi, Brendan A. Whelan, Shuji Akai and Yasuyuki Kita

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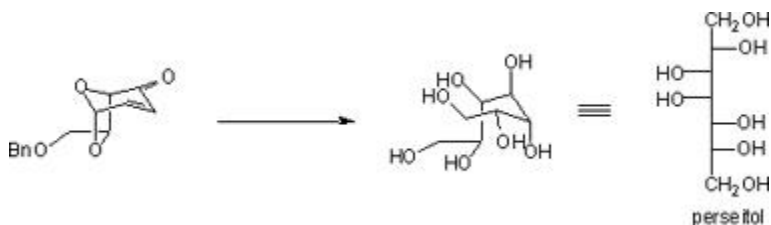
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16. A diastereocontrolled synthesis of perseitol using a dioxabicyclo[3.2.1]octane chiral building block (KF-784HP)

Kohei Kadota, Kunio Ogasawara and Yoshiharu Iwabuchi

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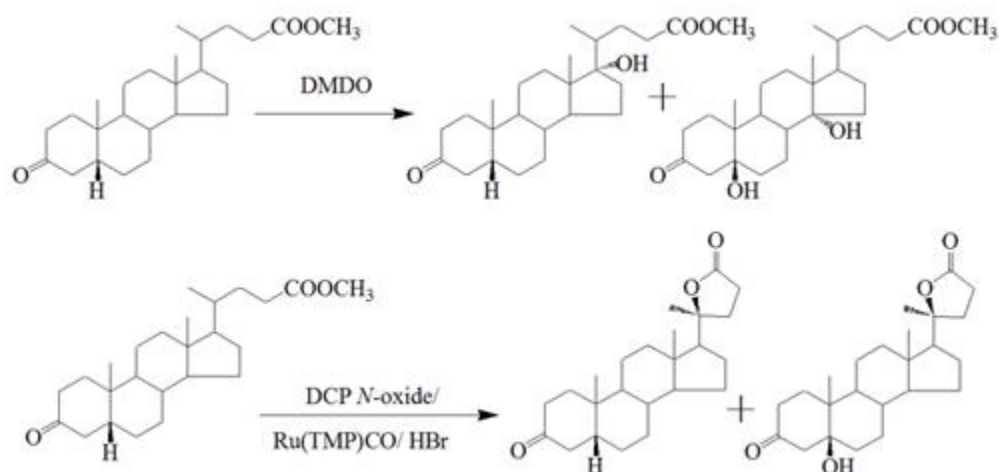
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17. A comparative study of remote oxy-functionalization of unactivated carbons in 5 β -steroids by dimethyldioxirane and 2,6-dichloropyridine *N*-oxide / ruthenium-porphyrin / HBr (KF-793HP)

Takashi Iida, Shoujiro Ogawa, Keisuke Shiraishi, Genta Kakiyama, Takaaki Goto, Nariyasu Mano and Junichi Goto

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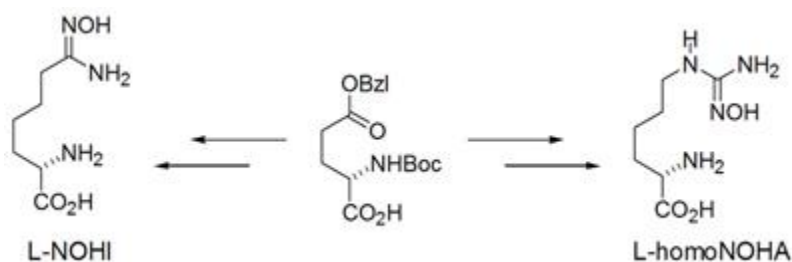
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18. Divergent synthesis of *N*-hydroxy-L-indospicine, the carbon isostere of *N*-hydroxy-L-arginine, and *N*-hydroxy-L-homoarginine from L-glutamate (KF-769HP)

Hiroyo Kabasawa, Makoto Yoshida and Tsutomu Ishikawa

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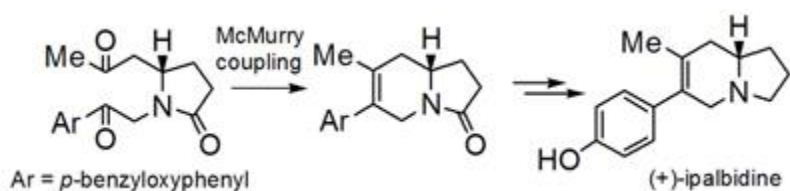
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19. Total synthesis of an indolizidine alkaloid, (+)-ipalbidine, by means of an intramolecular McMurry coupling reaction (KF-750HP)

Toshio Honda, Hidenori Namiki, Hiromasa Nagase and Hirotake Mizutani

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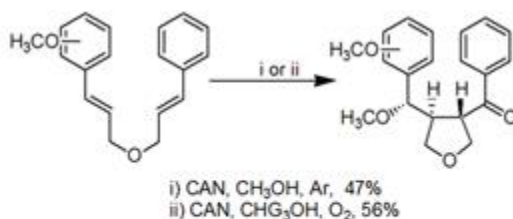
received Apr 17 2003; accepted Aug 21 2003; published Sep 4 2003;

20. Oxidative intramolecularcyclization reactions of cinnamyl ethers mediated by cerium(IV) ammonium nitrate (CAN): a stereoselective synthesis of 3,4-*trans*-disubstituted tetrahydrofuran derivatives (KF-794HP)

Vijay Nair, Lakshmi Balagopal, Rajeev S. Menon, Sindu Ros and R. Srinivas

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Various alkoxy-cinnamyl cinnamyl ethers and an alkoxy-cinnamyl prenyl ether underwent stereoselective oxidative cyclizations on treatment with a methanolic solution of cerium(IV) ammonium nitrate to afford 3,4-*trans*-disubstituted tetrahydrofuran derivatives.

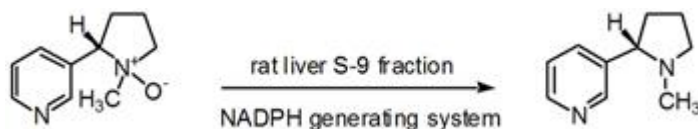
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21. Synthesis and reduction of (S)-(-)-nicotine-*N*'-oxide and *N,N*'-dioxides by rat liver S-9 fraction (KF-785HP)

Koji Uwai, Hirokazu Sato, Naoe Kazakami, Hisao Matsuzaki and Mitsuhiro Takeshita

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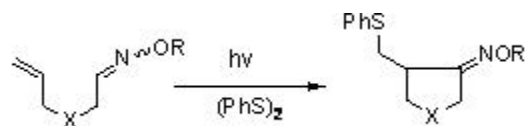
received May 30 2003; accepted Sep 3 2003; published Sep 19 2003;

22. Radical cyclization in heterocycle synthesis. Part 14. A simple and effective preparation of cyclic oxime ethers by photochemical radical addition–cyclization of acyclic oxime ethers (KF-800HP)

Okiko Miyata, Rina Yamanaka, Masafumi Ueda and Takeaki Naito

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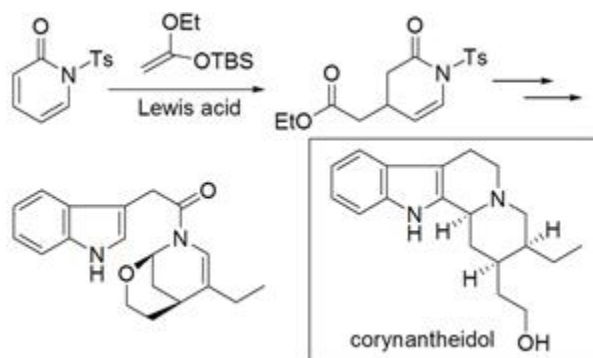
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23. Functionalization of *N*-tosyl-2-pyridinone with silyl ketene acetal catalyzed by Lewis acid, and synthetic studies of corynantheidol (KF-851HP)

Kou Hiroya, Rumi Jouka, Osamu Katoh, Takashi Sakuma, Michiko Anzai and Takao Sakamoto

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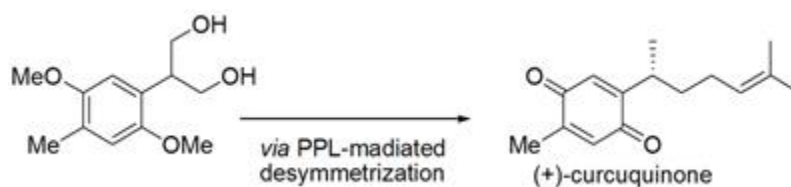
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24. Enantiocontrolled synthesis of (+)-curcuquinone and (-)-curcuhydroquinone (KF-835HP)

Tomoyuki Yoshimura, Hidetoshi Kisyuku, Tomoyo Kamei, Kenya Takabatake, Mitsuru Shindo and Kozo Shishido

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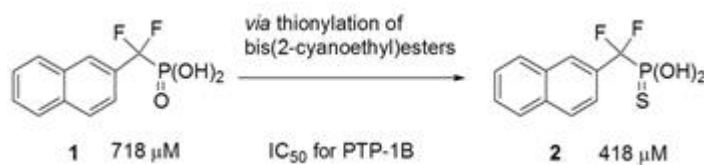
received Jul 18 2003; accepted Sep 30 2003; published Oct 16 2003;

25. The difluoromethylenephosphonothioic acid group as a phosphate surrogate for obtaining PTP-1B inhibitors. Transformation of difluoromethylenephosphonic acids into difluoromethylenephosphonothioic acids (KF-840HP)

Tetsuo Murano, Hiroaki Takechi, Yoko Yuasa, Tsutomu Yokomatsu, Ikuko Umesue, Shinji Soeda, Hiroshi Shimeno and Shiroshi Shibuya

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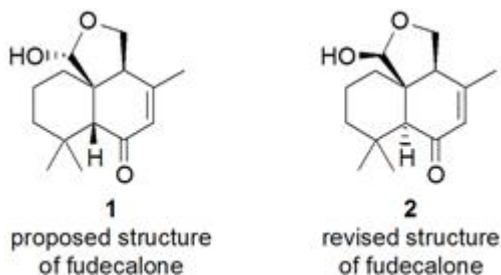
received Jul 22 2003; accepted Oct 12 2003; published Oct 30 2003;

26. Synthesis and determination of the absolute configuration of fudecalone (KF-855HP)

Hidenori Watanabe, Takahiro Yamaguchi, Takeshi Furuuchi, Masaru Kido, Masahiko Bando and Takeshi Kitahara

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