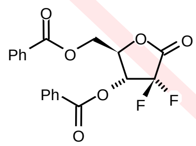
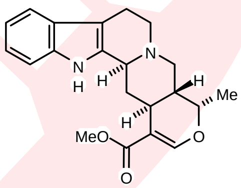
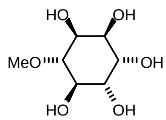
chiral tools for pharmacological research



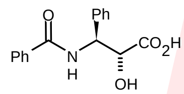
NEW! 42,256-8



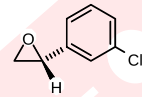
NEW! 44,647-5



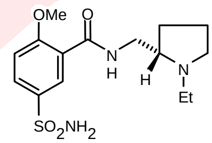
NEW! 44,125-2



NEW! 44,437-5



NEW! 44,086-8



NEW! 44,559-2

Selected Listings

36,563-7 (*S*)-(+)-Camptothecin, 95% **100mg; 500mg; 1g**

42,256-8 2-Deoxy-2,2-difluoro-D-erythropentonic acid γ-lactone 3,5-dibenzoate **50mg; 250mg**

44,647-5 Ajmalicine, 97% **250mg; 1g**

85,577-4 Colchicine, 95% **100mg; 500mg; 1g; 5g**

44,125-2 D-Pinitol, 95% **100mg; 500mg**

44,437-5 *N*-Benzoyl-(2*R*,3*S*)-3-phenylisoserine, 98% **100mg; 500mg**

41,701-7 Paclitaxel, 95% **1mg; 25mg**

23,048-0 Yohimbine, 98% **1g; 5g**

Y20-8 Yohimbine hydrochloride, 99% **5g; 25g**

44,086-8 (*R*)-(+)-3-Chlorostyrene oxide, 98% **1g; 5g**

44,559-2 (*S*)-(–)-Sulpiride, 98% **5g; 10g**

To inquire about the compounds listed above or their many analogs that we offer, or to have your technical questions answered, please call our Technical Services Department at **800-231-8327**, or contact us by e-mail at **aldrich@sial.com**.

Application Highlights

The therapeutic potential of **camptothecin** and its analogs for the treatment of cancer has been extensively reviewed.[1] These compounds have also been used in the synthesis of mappicine ketones[2] and a new class of water-soluble camptothecin derivatives.[3]

(1) See, for example, Muggia, F.M. et al. *Ann. N.Y. Acad. Sci.* **1996**, *803*, 213. Jew, S. et al. *Korean J. Med. Chem.* **1996**, *6*, 263. (2) Fortunak, J.M.D. et al. *Tetrahedron Lett.* **1994**, *35*, 5763. (3) Bedeschi, A. et al. *Bioorg. Med. Chem. Lett.* **1996**, *6*, 671.

Difluororibonolactone **42,256-8** was employed in the synthesis of fluorinated ribofuranosyl pyrimidine nucleosides for evaluation as antitumor agents.

Chou, T.S. et al. *Synthesis* **1992**, 565.

Colchicine was used in the synthesis of antitubulin agents[1] and in the preparation of nanoparticles for the controlled release of antitumor drugs.[2]

(1) Shi, Q. et al. *J. Med. Chem.* **1997**, *40*, 961. (2) Chang, J. *Trans. Tianjin Univ.* **1996**, *2*, 25; *Chem. Abstr.* **1997**, *126*, 108841j.

Several recent studies have identified **D-pinitol** as a major transport carbohydrate and stress metabolite in soybean plants.

For example: Guo, C.; Oosterhuis, D.M. *Proc. Plant Growth Regul. Soc. Am.* **1993**, 23. Idem *J. Exp. Bot.* **1995**, *46*, 249.

Paclitaxel use in cancer therapy continues to be investigated intensely as evidenced by the many recent reviews.

For example: Neijt, J.P.; Lund, B. *Semin. Oncol.* **1996**, *23*, 2. Bunn, P.A., Jr. *ibid.* **1996**, *23*, 9. Greco, F.A.; Hainsworth, J.D. *ibid.* **1996**, *23*, 19. Gehl, J. et al. *ibid.* **1996**, *23*, 35.

Yohimbine's effects on isolated canine carotid artery rings[1] and on autonomic measures[2] are among several investigated recently.

(1) Gintautas, J. et al. *Proc. West. Pharmacol. Soc.* **1996,** *39*, 45. (2) Grasing, K. et al. *J. Clin. Pharmacol.* **1996**, *36*, 814.

Chlorostyrene oxide was utilized in the synthesis of β-adrenergic agonists such as FR165914[1] and SR 68611A.[2]

(1) Hattori, K. et al. *Bioorg. Med. Chem. Lett.* **1995**, *5*, 2821. (2) Badone, D.; Guzzi, U. *ibid.* **1994**, *16*, 1921.

The biological activity of **levosulpiride** has been actively evaluated in such areas as functional dyspepsia[1] and schizophrenia.[2]

(1) Corazza, G.R. et al. *Ital. J. Gastroenterol.* **1996**, *28*, 317. (2) Ronchi, D.D. et al. *Curr. Ther. Res.* **1996**, *57*, 797.