



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <b>(51) International Patent Classification <sup>6</sup>:</b><br>C07C 229/00, C07D 209/02, 233/32,<br>233/54, 277/30, 291/00, 303/02, 303/08,<br>303/12, 303/36, 307/34, 317/46, 333/52,<br>333/72, 405/00, 405/02, 405/14, 409/00,<br>409/02, C07F 7/02, 9/06, 9/28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>A1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>(11) International Publication Number:</b> <b>WO 98/38158</b><br><br><b>(43) International Publication Date:</b> 3 September 1998 (03.09.98) |
| <b>(21) International Application Number:</b> PCT/US98/03655<br><br><b>(22) International Filing Date:</b> 25 February 1998 (25.02.98)<br><br><b>(30) Priority Data:</b><br>60/039,114 26 February 1997 (26.02.97) US<br>60/039,116 26 February 1997 (26.02.97) US<br><br><b>(71) Applicants (for all designated States except US):</b> ELI LILLY AND COMPANY [US/US]; Lilly Corporate Center, Indianapolis, IN 46285 (US). UNIVERSITY OF HAWAII [US/US]; Suite 280, 2800 Woodlawn Drive, Honolulu, HI 96822 (US). WAYNE STATE UNIVERSITY [US/US]; 4012 Faculty Administration Building, Detroit, MI 48202 (US).<br><br><b>(72) Inventors; and</b><br><b>(75) Inventors/Applicants (for US only):</b> HOARD, David, W. [US/US]; 440 Dayld Drive, Greenwood, IN 46142 (US).<br>② MOHER, Eric, D. [US/US]; 4524 Pepper Court, Indianapolis, IN 46237 (US). ③ PATEL, Vinod, F. [US/US]; 13002 Fleetwood Drive North, Carmel, IN 46032 (US). | <b>(74) Agents:</b> BOUDREAUX, William, R. et al.; Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN 46285 (US).<br><br><b>(81) Designated States:</b> AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).<br><br><b>Published</b><br>With international search report. |                                                                                                                                                 |
| <b>(54) Title:</b> PROCESS FOR PREPARING PHARMACEUTICAL COMPOUNDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                 |
| <b>(57) Abstract</b><br><br>Cryptophycin compounds may be prepared utilizing an epoxidation step early in the synthetic process under the conditions set forth herein. This invention also relates to novel intermediates generated by this early epoxidation process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                 |