Total synthesis of the potent antitumor polyketide (–)-callystatin A[#]

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Dedicated to Prof. Peter Bakuzis for his outstanding contributions to the field of synthetic organic chemistry in Brazil

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IR (film) – Aldol (29)

^1H NMR (300 MHz, CDCl_3) – Weinreb amide from (29)

^{13}C NMR (75 MHz, CDCl_3) – Weinreb amide from (29)

DEPT 90/135 (75 MHz, CDCl_3) – Weinreb amide from (29)

IR (film) – Weinreb amide from (29)

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DEPT 90/135 (75 MHz, CDCl₃) – Weinreb amide (7)

IR (film) – Weinreb amide (7)

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^1H NMR (300 MHz, CDCl_3) – Unsaturated ester (30)

^{13}C NMR (75 MHz, CDCl_3) – Unsaturated ester (30)

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DEPT 90/135 (75 MHz, CDCl₃) – Unsaturated ester (30)

IR (film) – Unsaturated ester (30)

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^1H NMR (300 MHz, CDCl_3) – Allylic alcohol (6)

^{13}C NMR (75 MHz, CDCl_3) – Allylic alcohol (6)

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DEPT 90/135 (75 MHz, CDCl_3) – Allylic alcohol (6)

IR (film) – Allylic alcohol (6)

¹H NMR (300 MHz, CDCl₃) – Epoxide (31)

¹³C NMR (75 MHz, CDCl₃) – Epoxide (31)

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DEPT 90/135 (75 MHz, CDCl₃) – Epoxide (31)

IR (film) – Epoxide (31)

SI-78

¹H NMR (300 MHz, CDCl₃) – Diol (32)

¹³C NMR (75 MHz, CDCl₃) – Diol (32)

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DEPT 90/135 (75 MHz, CDCl₃) – Diol (32)

IR (film) – Diol (32)

¹³C NMR (75 MHz, CDCl₃) – Acetonide (35)

DEPT 90/135 (75 MHz, CDCl₃) – Acetonide (35)

SI-83

^1H NMR (300 MHz, CDCl_3) – Acetal (33)

^{13}C NMR (75 MHz, CDCl_3) – Acetal (33)

DEPT 90/135 (75 MHz, CDCl_3) – Allylic alcohol from (37)

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^1H NMR (300 MHz, CDCl_3) – (E)-Vinyl iodide (3)

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