

Synthesis of Enantiomerically Enriched Protected 2-Amino-, 2,3-Diamino- and 2-Amino-3-Hydroxypropylphosphonates

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NMR spectra for crude mixtures after reactions of racemic **30**, (*S*)-**30**, and (*R*)-**30** with (*R*)-1-phenylethylamine and for crude mixtures of (*S*)-**31** and (*R*)-**31** with quinine.

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Figure S2. ¹³C NMR Spectrum for racemic **24** in CDCl₃

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Figure S24. ^{31}P NMR Spectrum for racemic **27** in CDCl_3

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Figure S29. ^1H NMR Spectrum for racemic **28** in CDCl_3

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Figure S33. ^{31}P NMR Spectrum for (*R*)-**28** in CDCl_3

Figure S34. ^1H NMR Spectrum for (*S*)-**28** in CDCl_3

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Figure S38. ^{31}P NMR Spectrum for racemic **29** in CDCl_3

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Figure S53. ^{31}P NMR Spectrum for crude mixture after reaction of (*S*)-**30** with (*R*)-1-phenylethylamine in CDCl_3

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Figure S55. ^{31}P NMR Spectrum for the mixture of crude (*S*)-**31** with 4 equiv. of quinine in CDCl_3

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Figure S57. Analytical chromatogram for racemic **27**

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Figure S61. Analytical chromatogram for (*R*)-**28**

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Figure S7. ^{31}P NMR Spectrum for (S)-**24** in CDCl_3

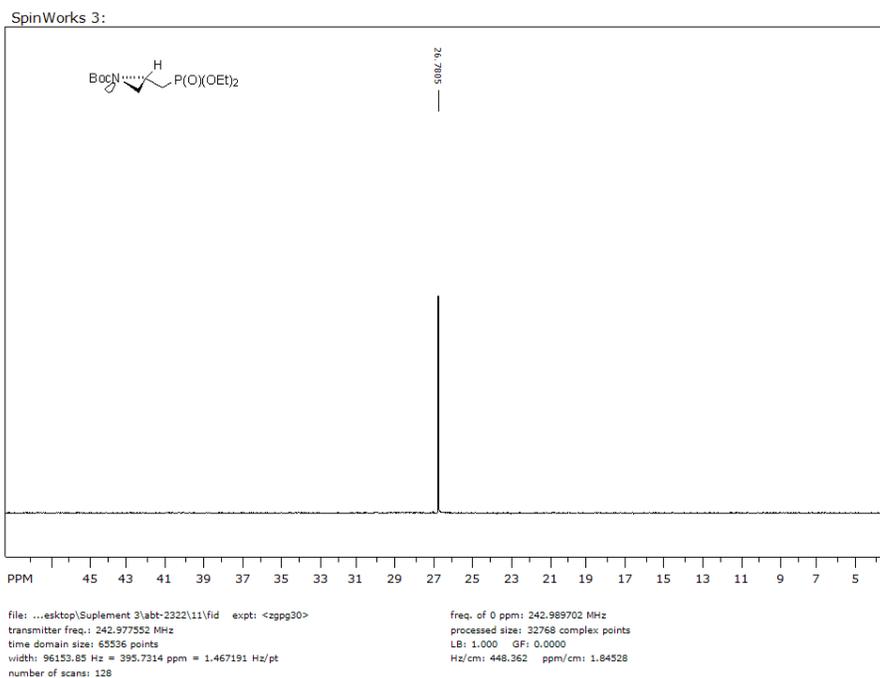


Figure S8. ^1H NMR Spectrum for racemic **25** in CDCl_3

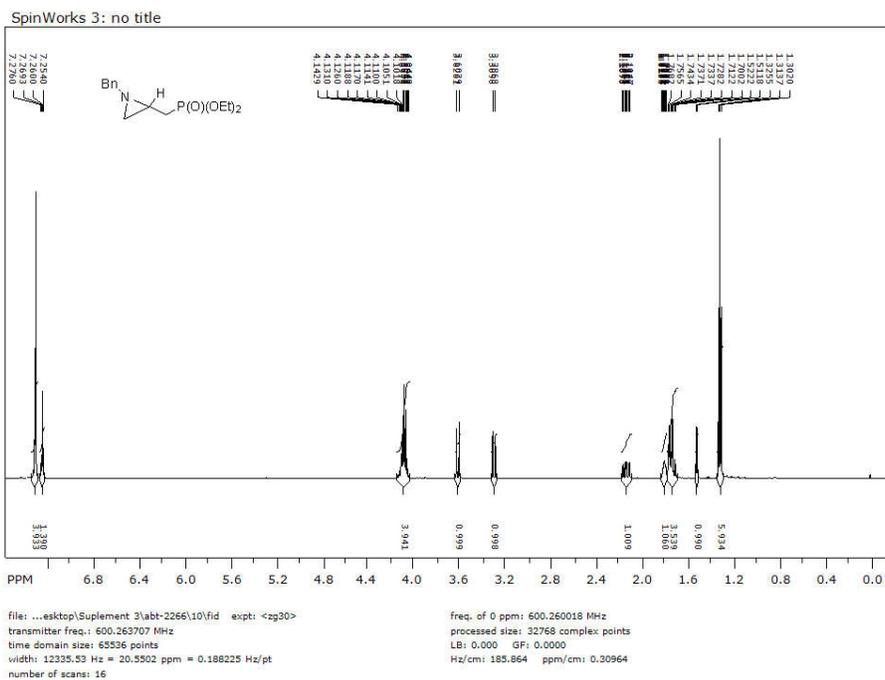


Figure S9. ^{13}C NMR Spectrum for racemic **25** in CDCl_3

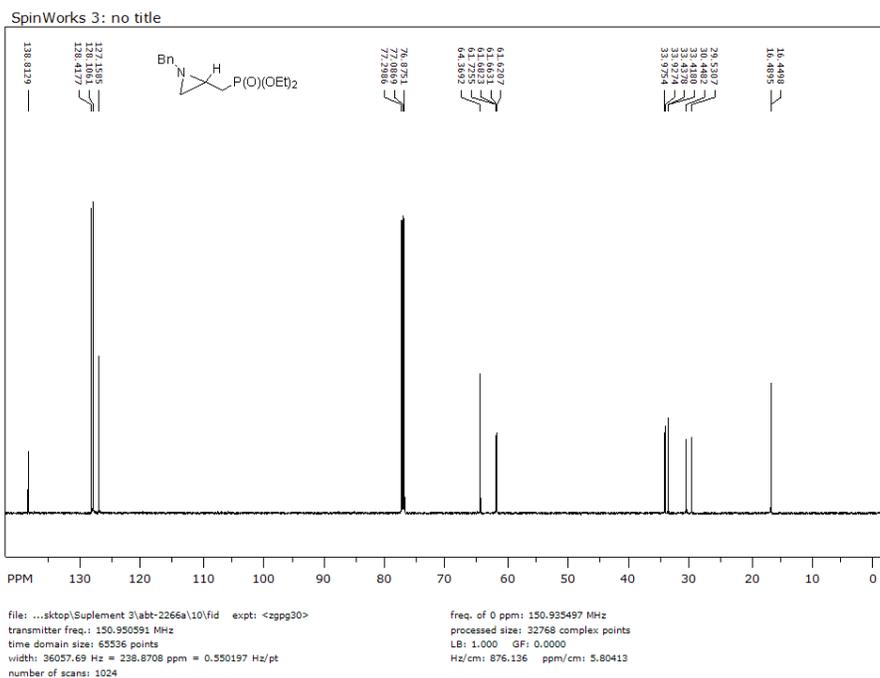


Figure S10. ^{31}P NMR Spectrum for racemic **25** in CDCl_3

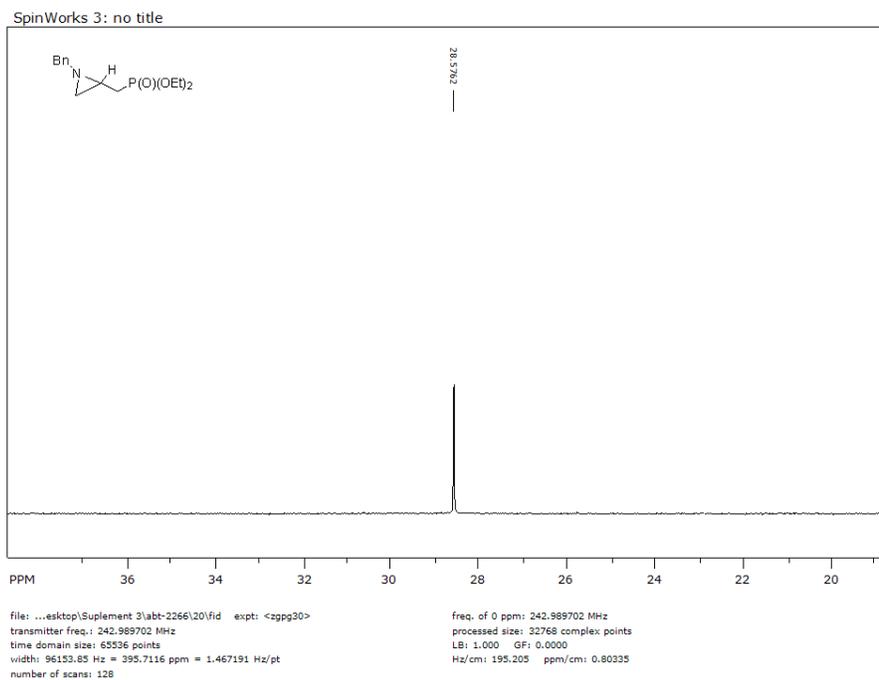


Figure S11. ^1H NMR Spectrum for (*R*)-**25** in CDCl_3

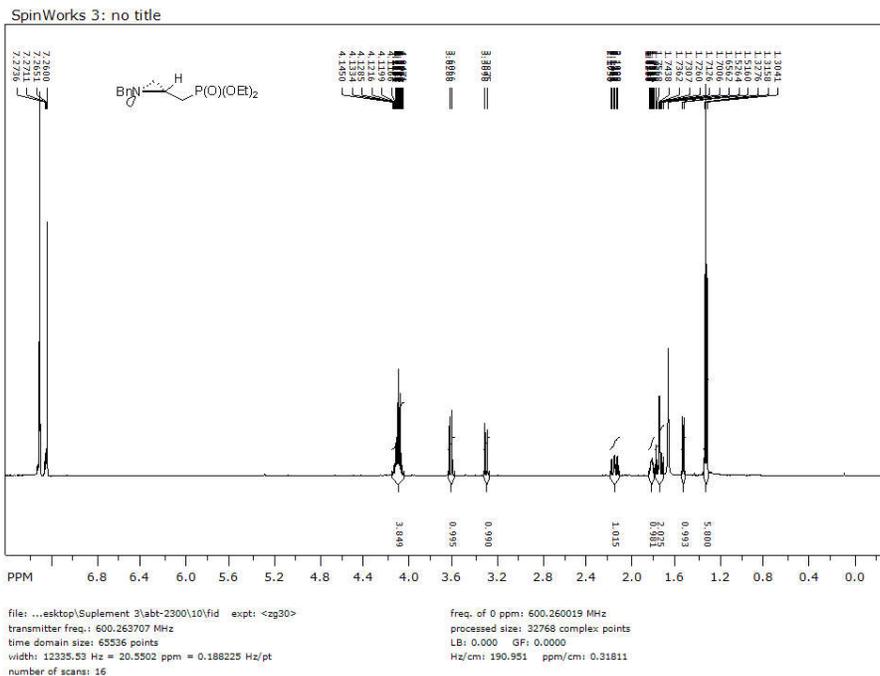


Figure S12. ^{31}P NMR Spectrum for (*R*)-**25** in CDCl_3

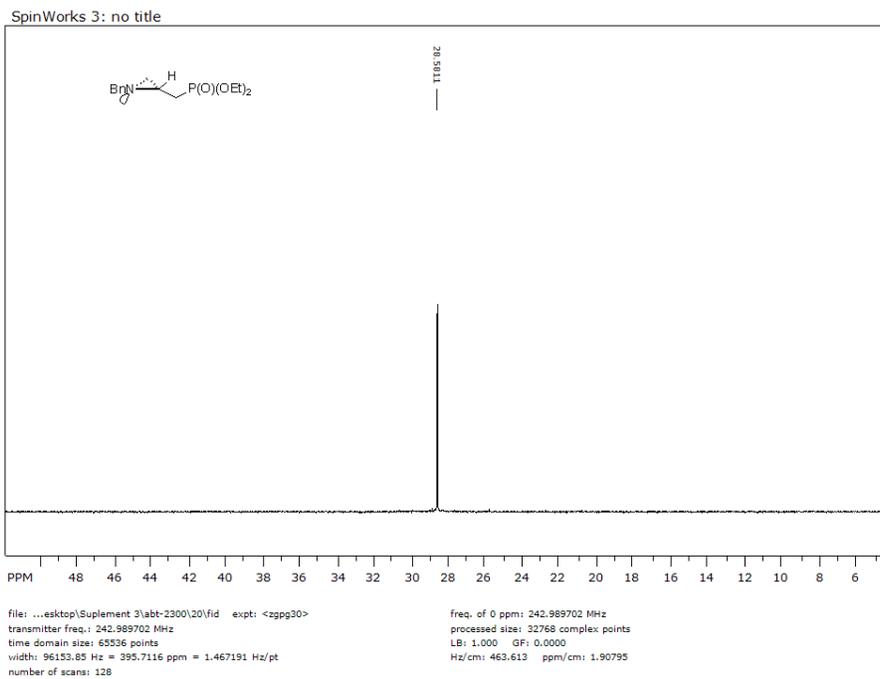


Figure S13. ^1H NMR Spectrum for (*S*)-**25** in CDCl_3

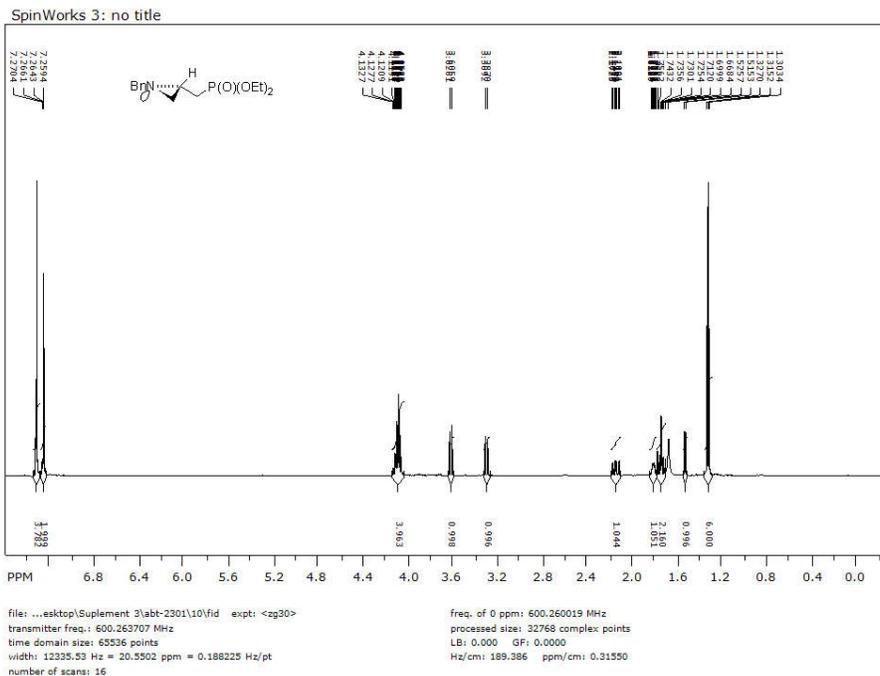


Figure S14. ^{31}P NMR Spectrum for (*S*)-**25** in CDCl_3

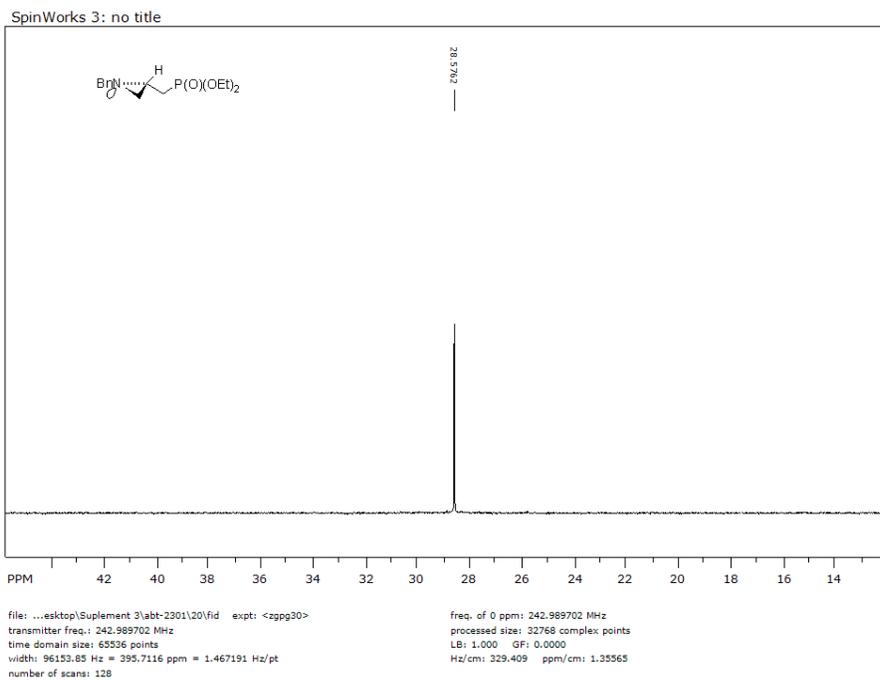


Figure S17. ^{31}P NMR Spectrum for racemic **26** in CDCl_3

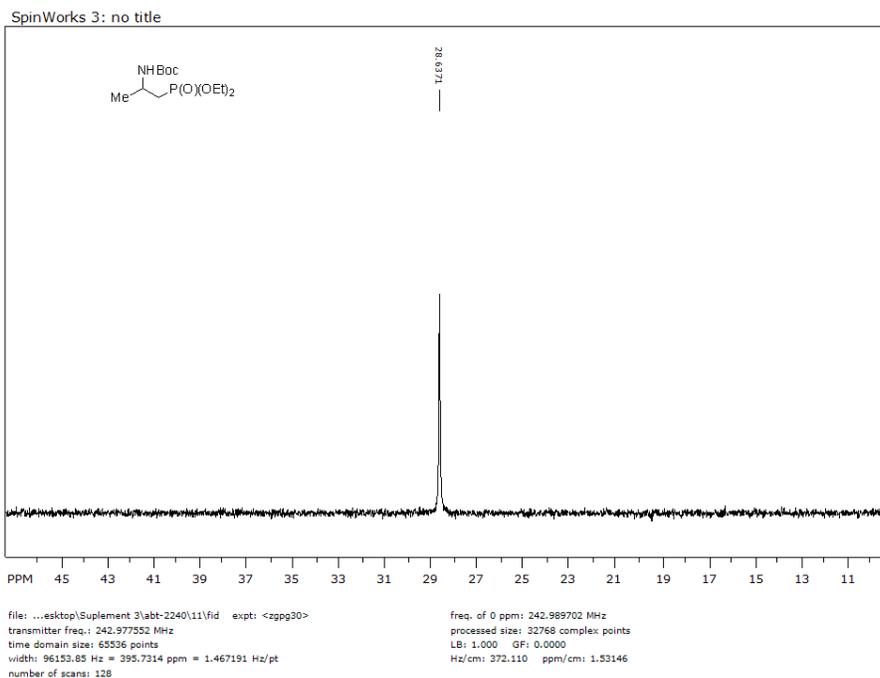


Figure S18. ^1H NMR Spectrum for (*R*)-**26** in CDCl_3

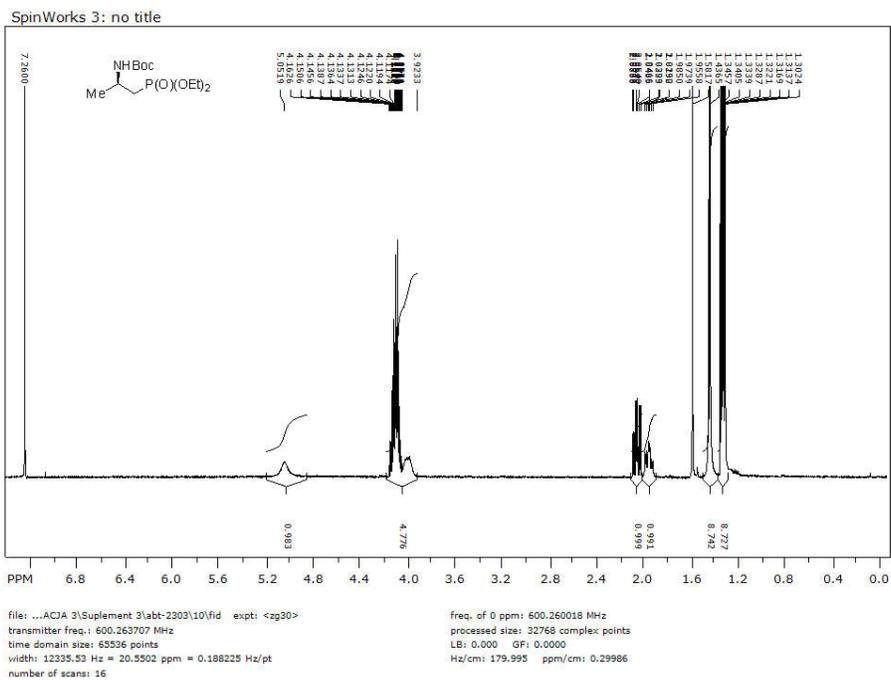


Figure S23. ^{13}C NMR Spectrum for racemic **27** in CDCl_3

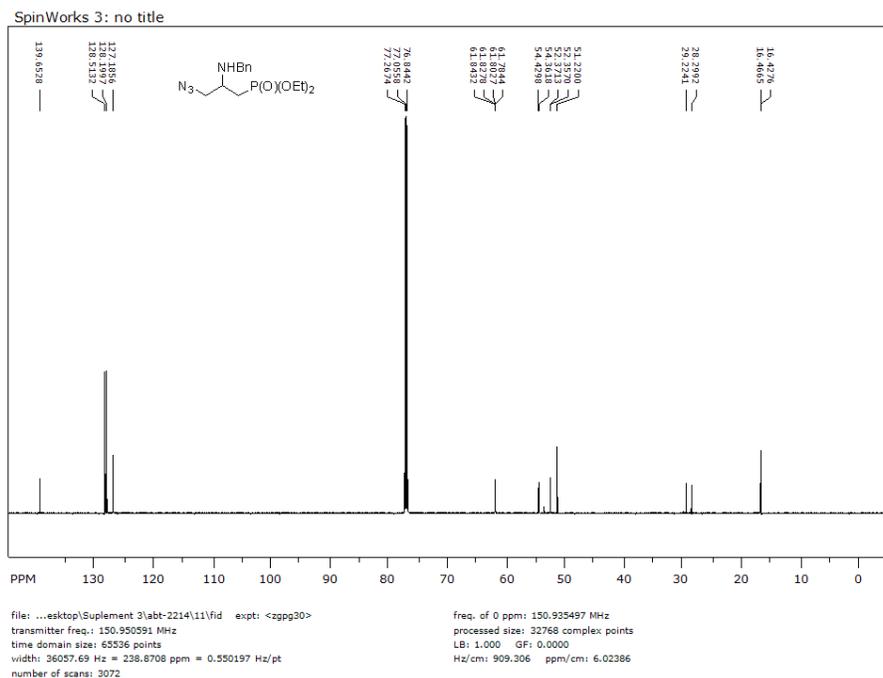


Figure S24. ^{31}P NMR Spectrum for racemic **27** in CDCl_3

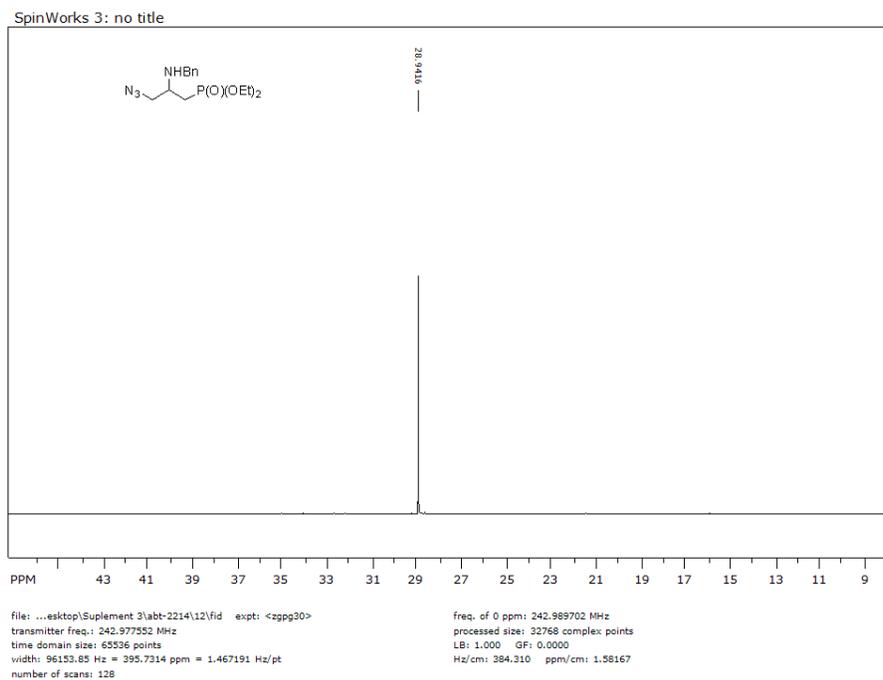


Figure S25. ^1H NMR Spectrum for (*R*)-27 in CDCl_3

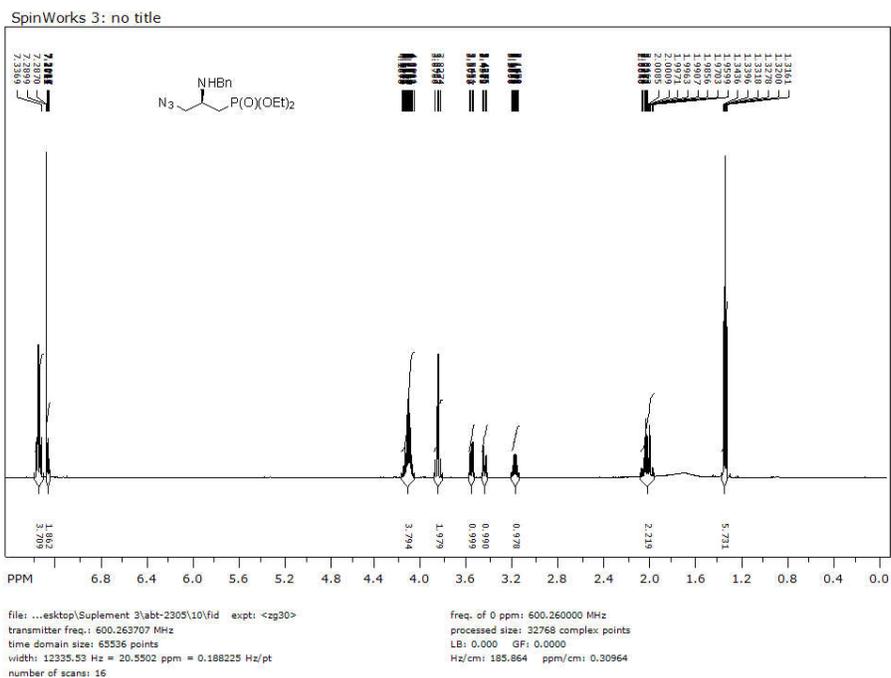


Figure S26. ^{31}P NMR Spectrum for (*R*)-27 in CDCl_3

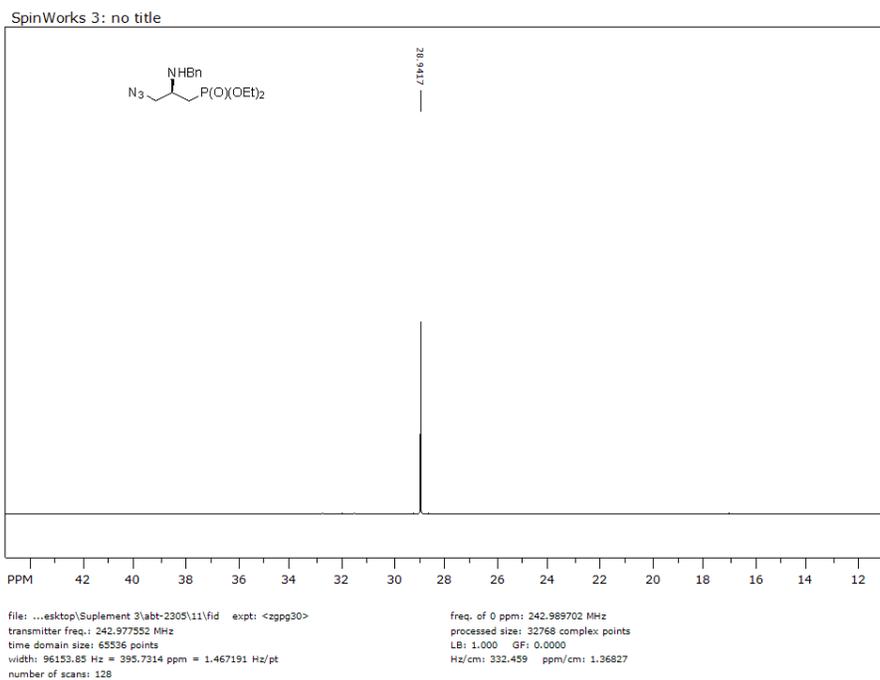


Figure S31. ^{31}P NMR Spectrum for racemic **28** in CDCl_3

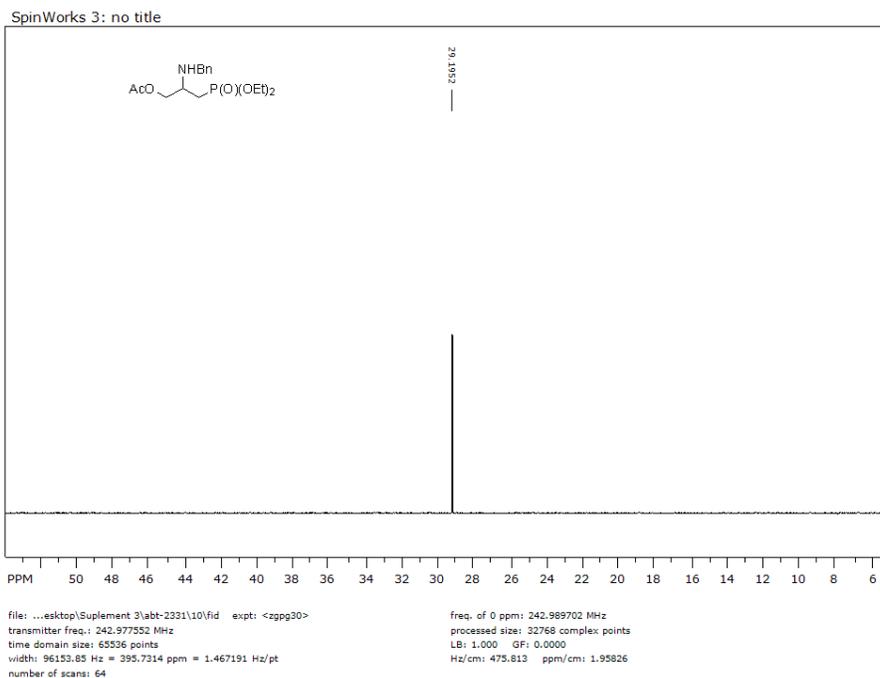


Figure S32. ^1H NMR Spectrum for (*R*)-**28** in CDCl_3

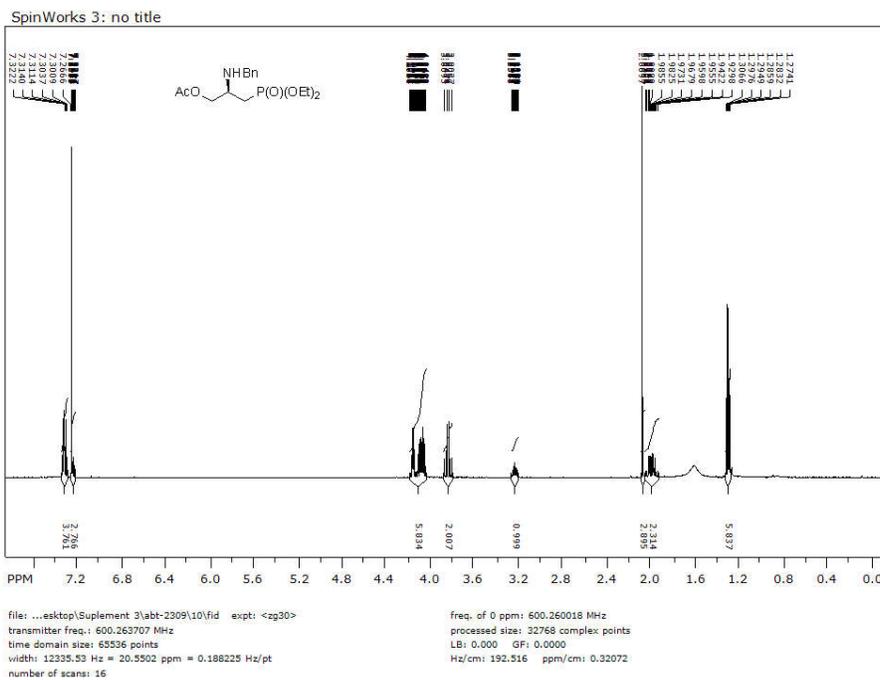


Figure S37. ^{13}C NMR Spectrum for racemic **29** in CDCl_3

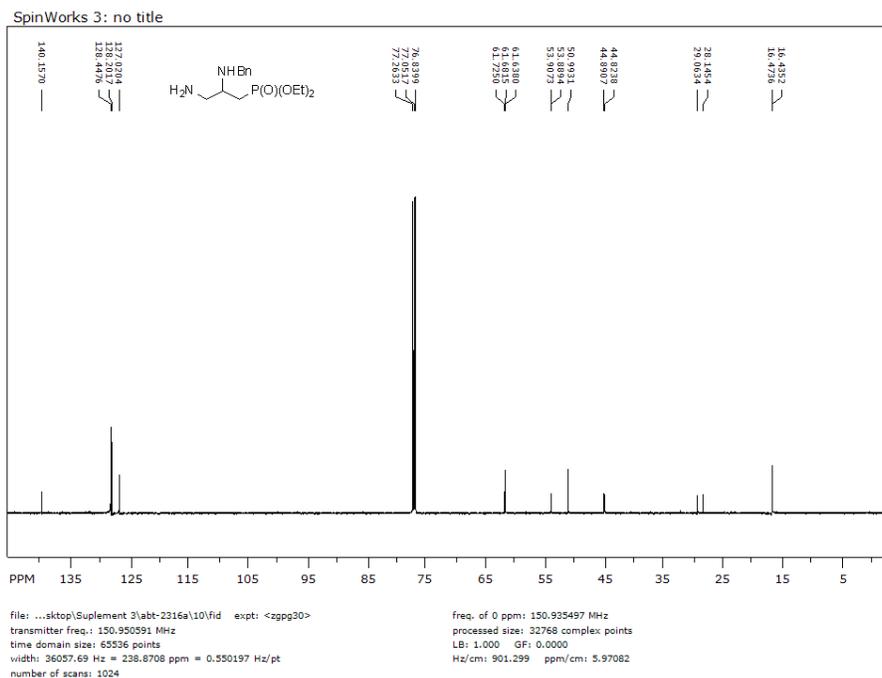


Figure S38. ^{31}P NMR Spectrum for racemic **29** in CDCl_3

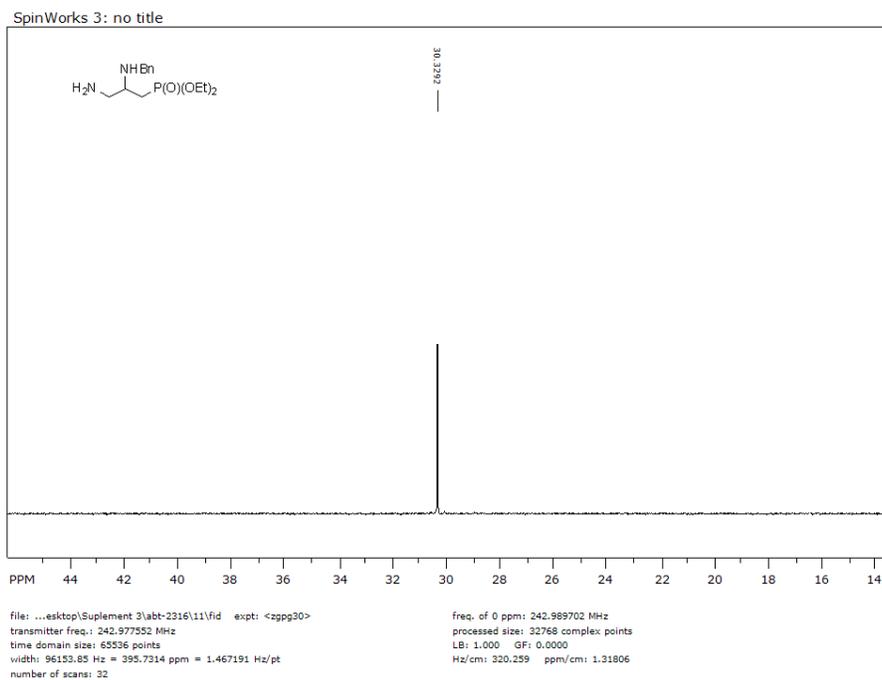


Figure S43. ^1H NMR Spectrum for racemic **34** in CDCl_3

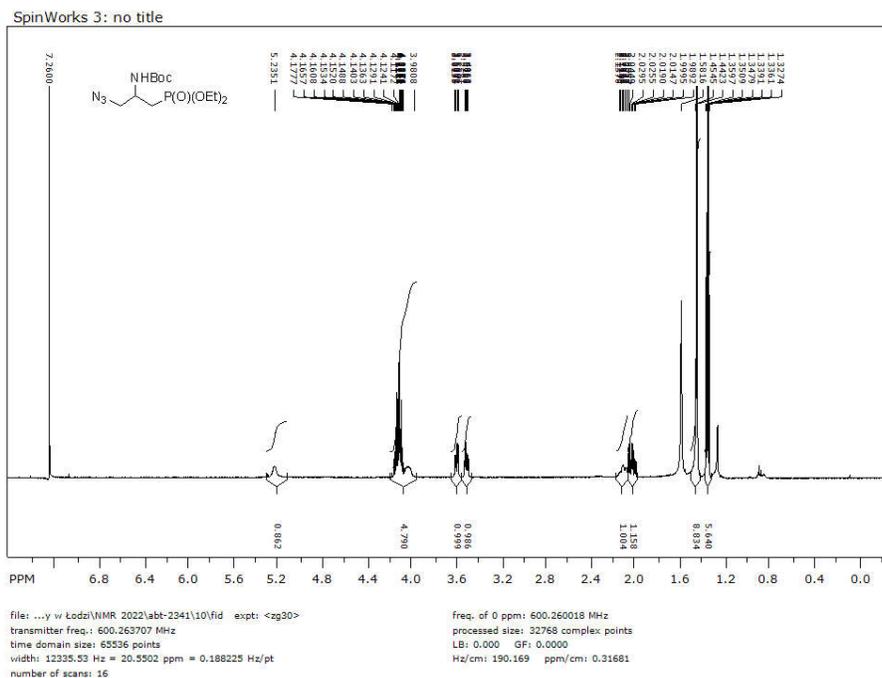


Figure S44. ^{13}C NMR Spectrum for racemic **34** in CDCl_3

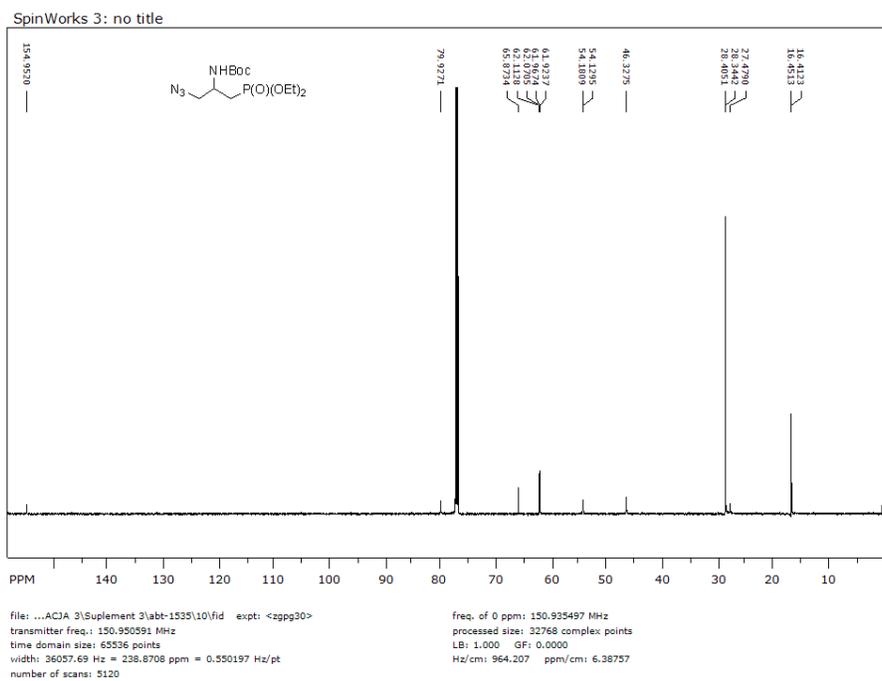


Figure S47. ^{13}C NMR Spectrum for racemic **35** in CDCl_3

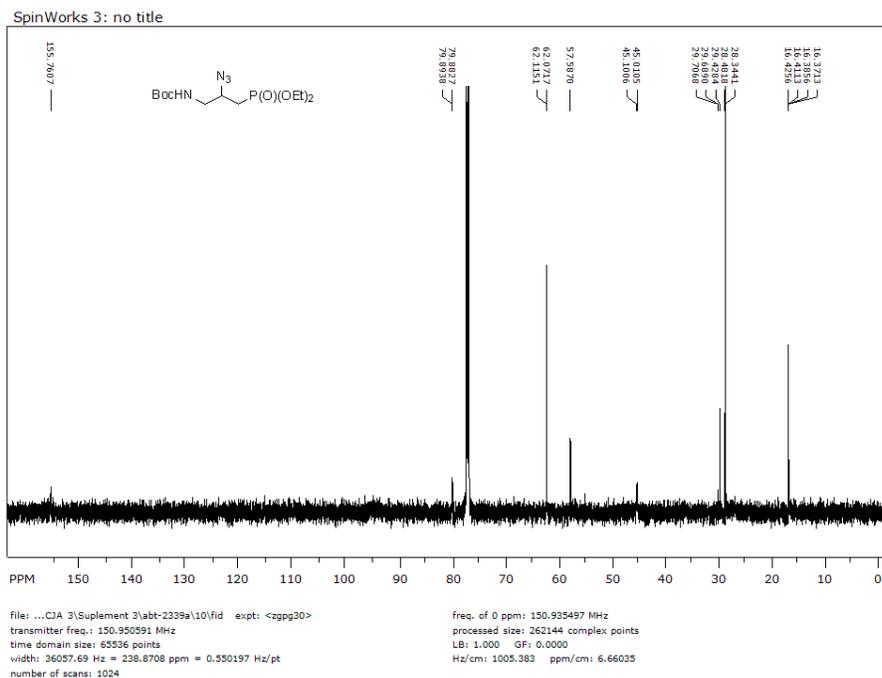


Figure S48. ^{31}P NMR Spectrum for racemic **35** in CDCl_3

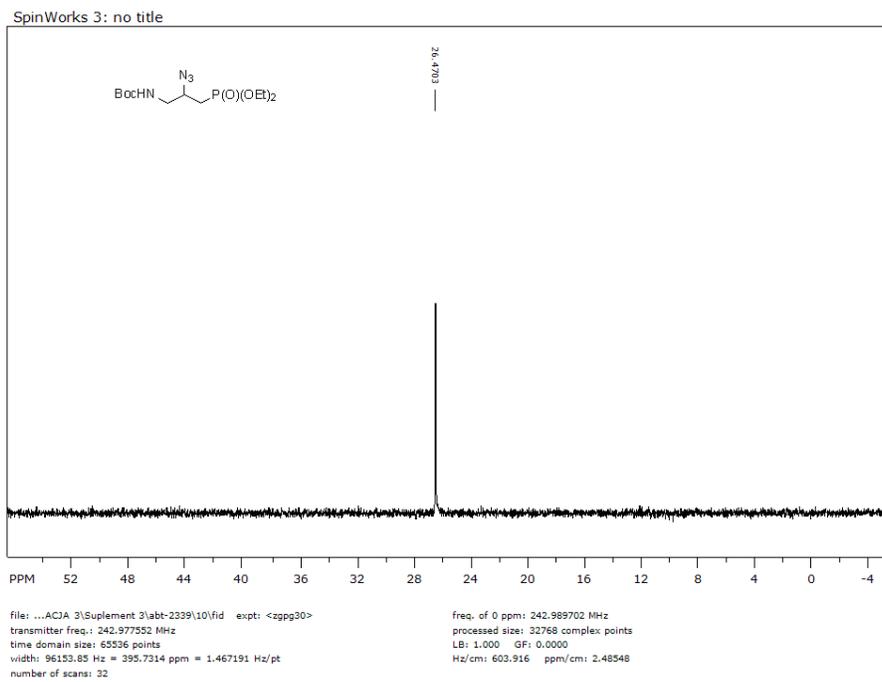


Figure S49. ^1H NMR Spectrum for (*E*)-**39** in CDCl_3

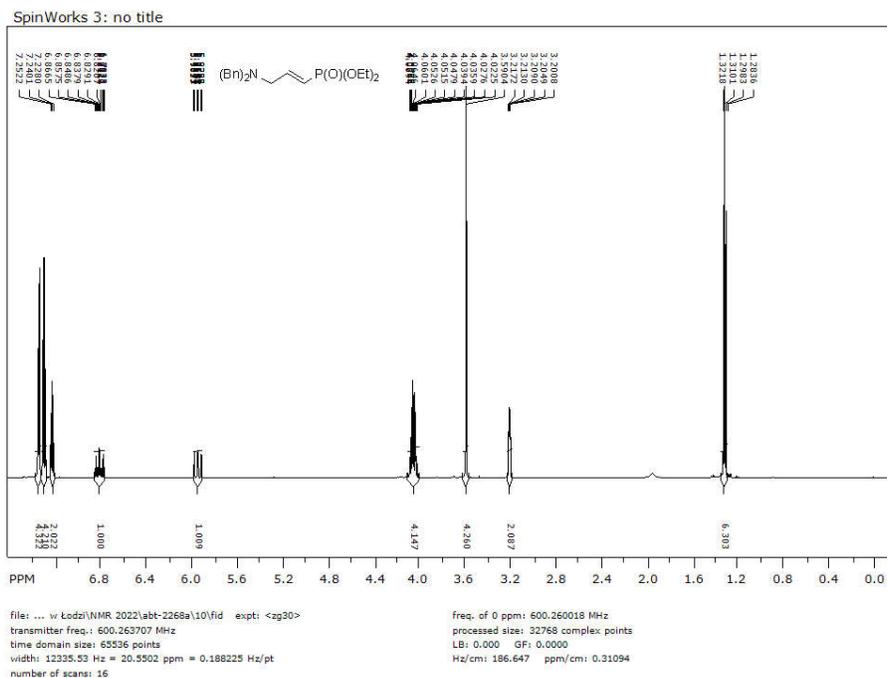


Figure S50. ^{13}C NMR Spectrum for (*E*)-**39** in CDCl_3

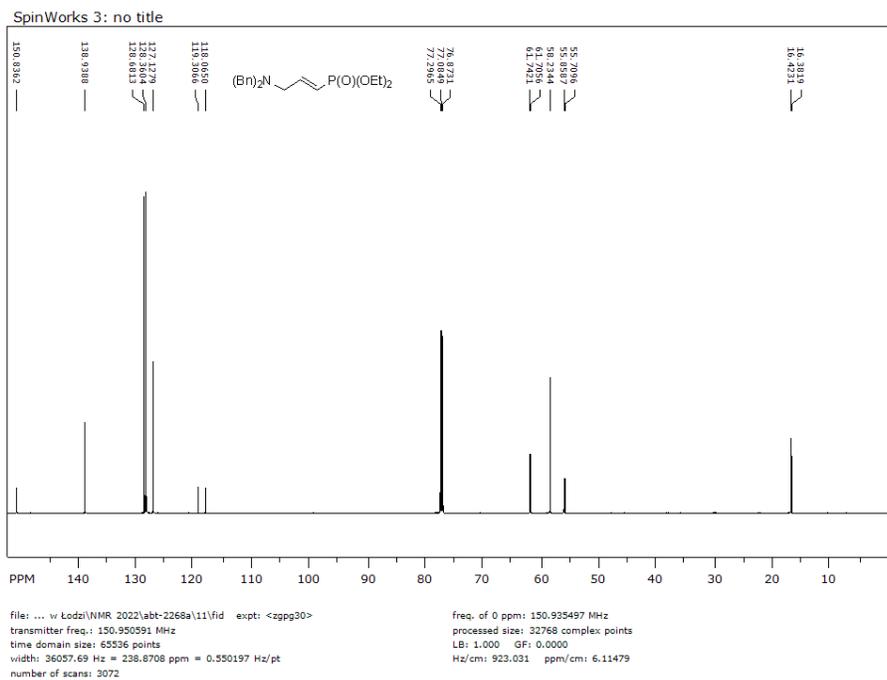


Figure S51. ^{31}P NMR Spectrum for (*E*)-**39** in CDCl_3

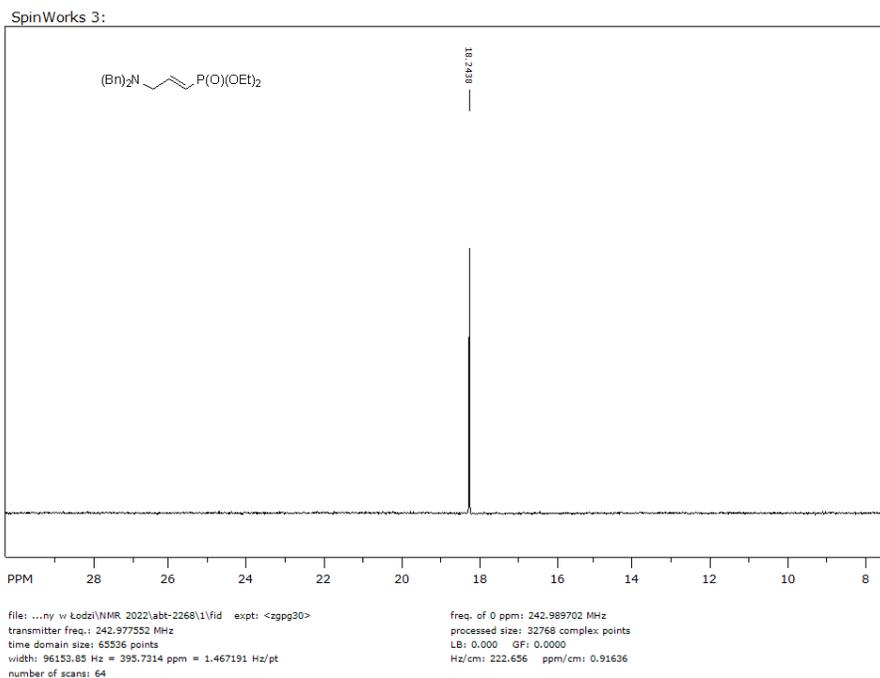


Figure S52. ^{31}P NMR Spectrum for crude mixture after reaction of racemic **30** with (*R*)-1-phenylethylamine in CDCl_3

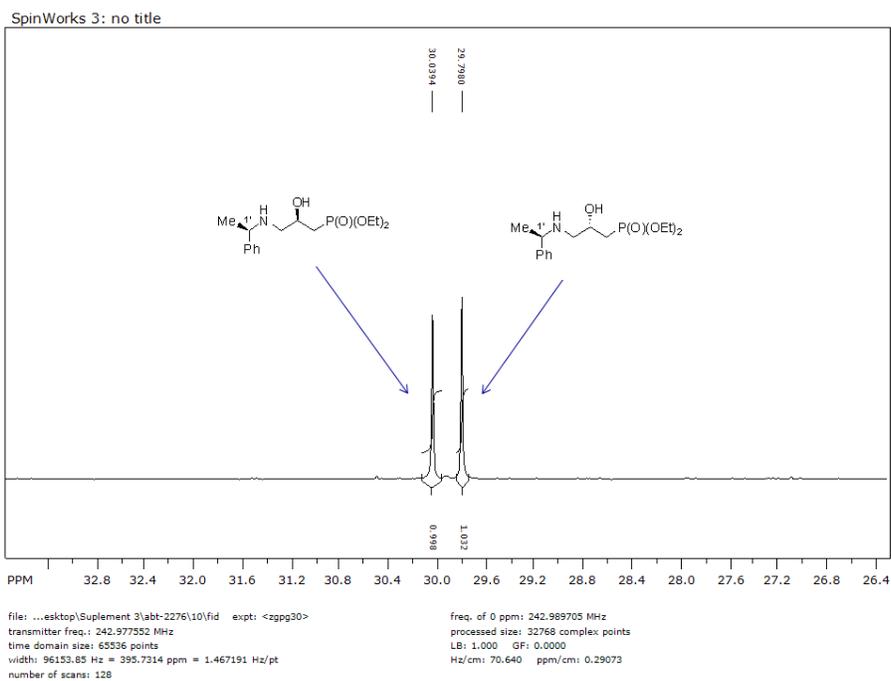


Figure S53. ^{31}P NMR Spectrum for crude mixture after reaction of (*S*)-**30** with (*R*)-1-phenylethylamine in CDCl_3

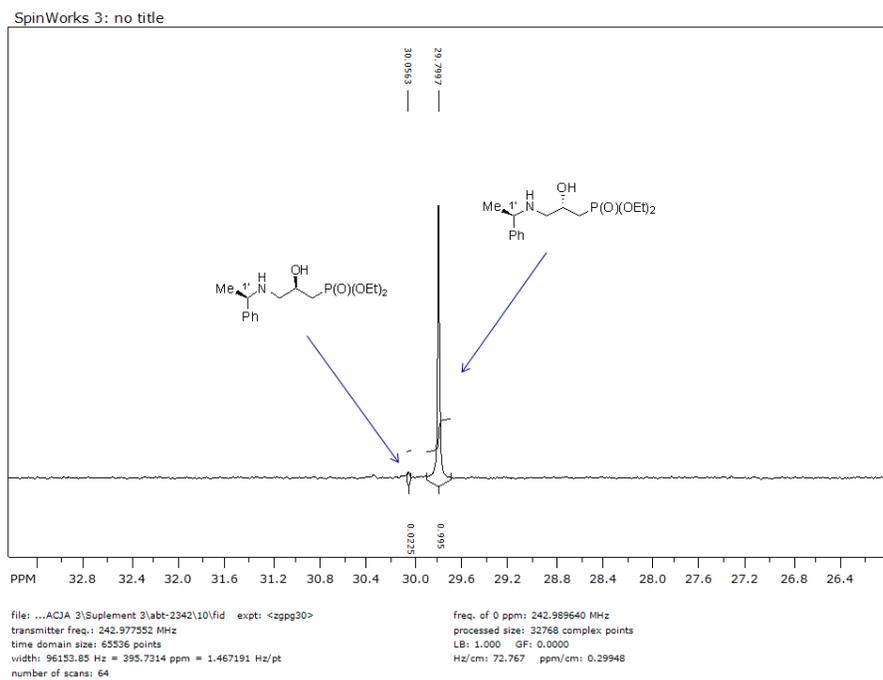


Figure S54. ^{31}P NMR Spectrum for crude mixture after reaction of (*R*)-**30** with (*R*)-1-phenylethylamine in CDCl_3

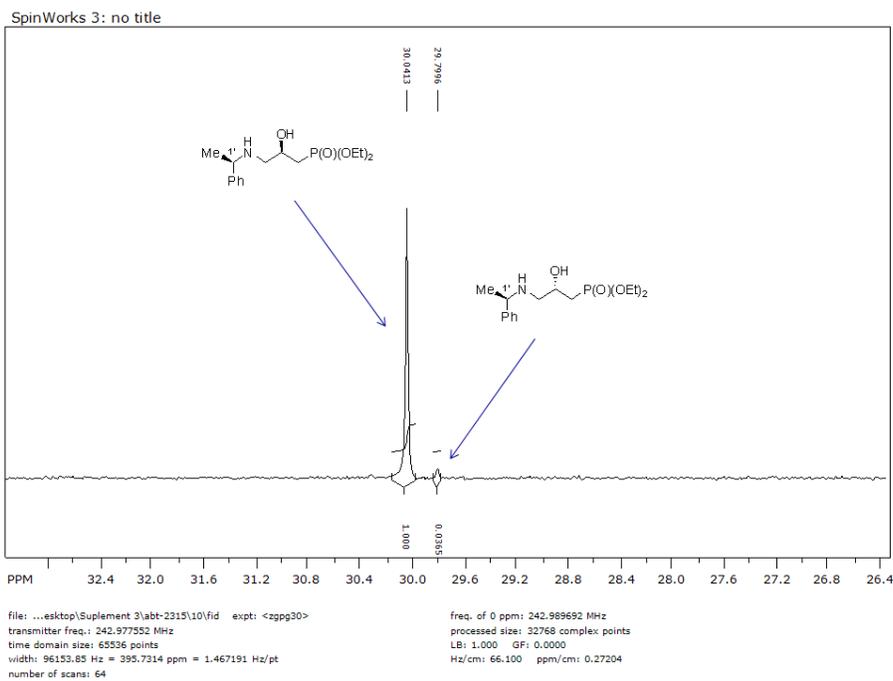


Figure S55. ^{31}P NMR Spectrum for mixture of crude (*S*)-**31** with 4 equiv. of quinine in CDCl_3

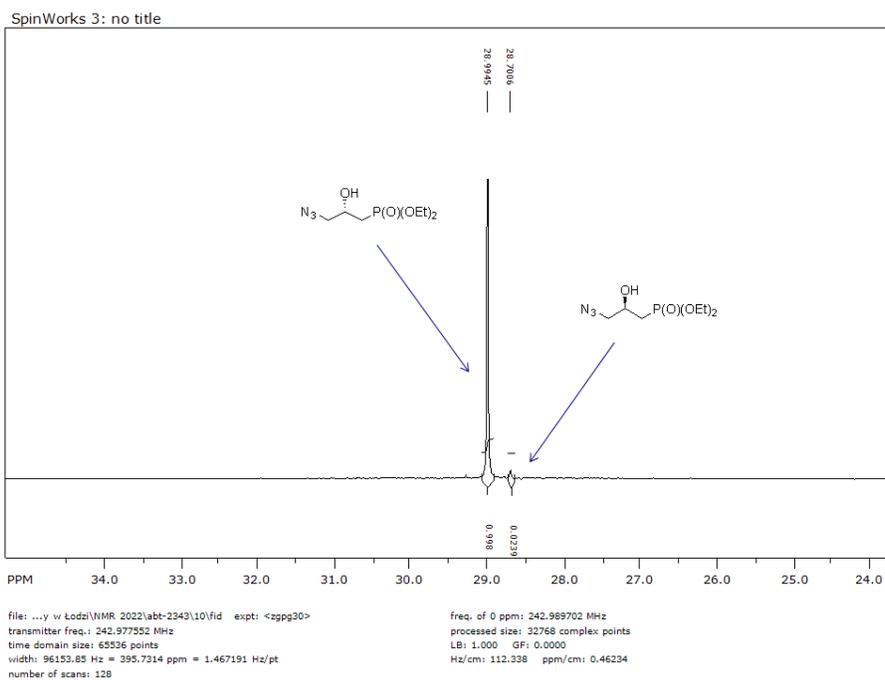


Figure S56. ^{31}P NMR Spectrum for mixture of crude (*R*)-**31** with 4 equiv. of quinine in CDCl_3

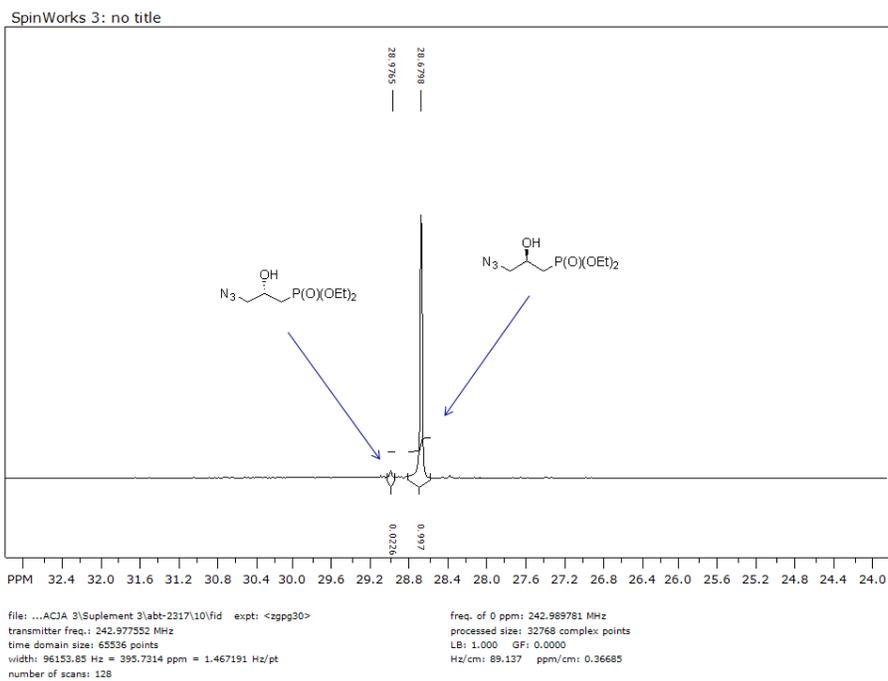


Figure S57. Analytical chromatogram for racemic 27

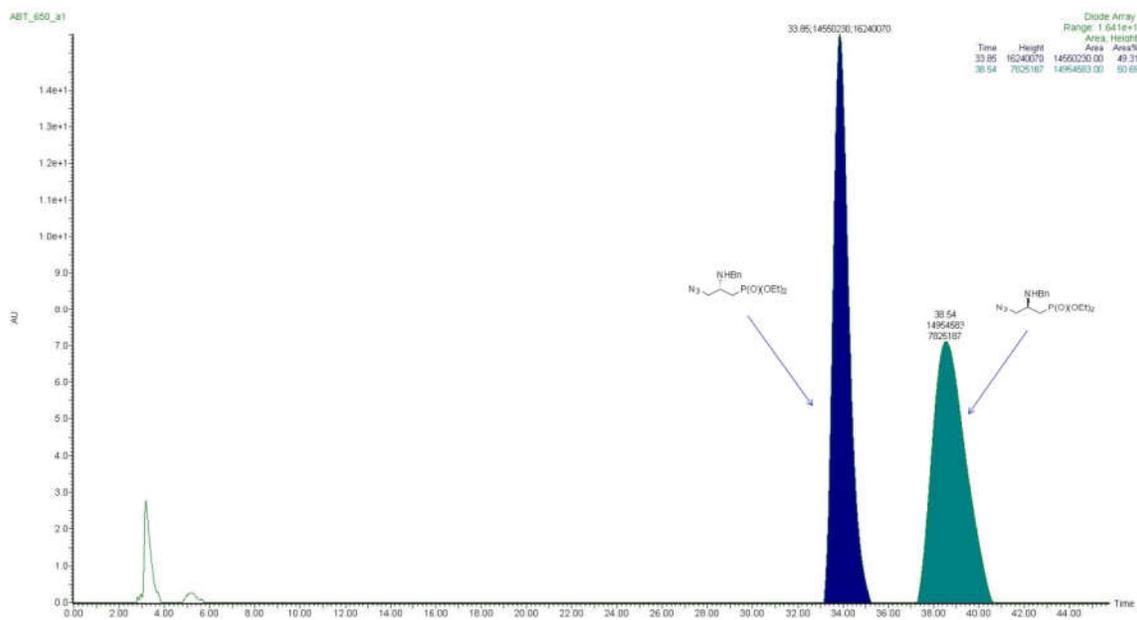


Figure S58. Analytical chromatogram for (R)-27

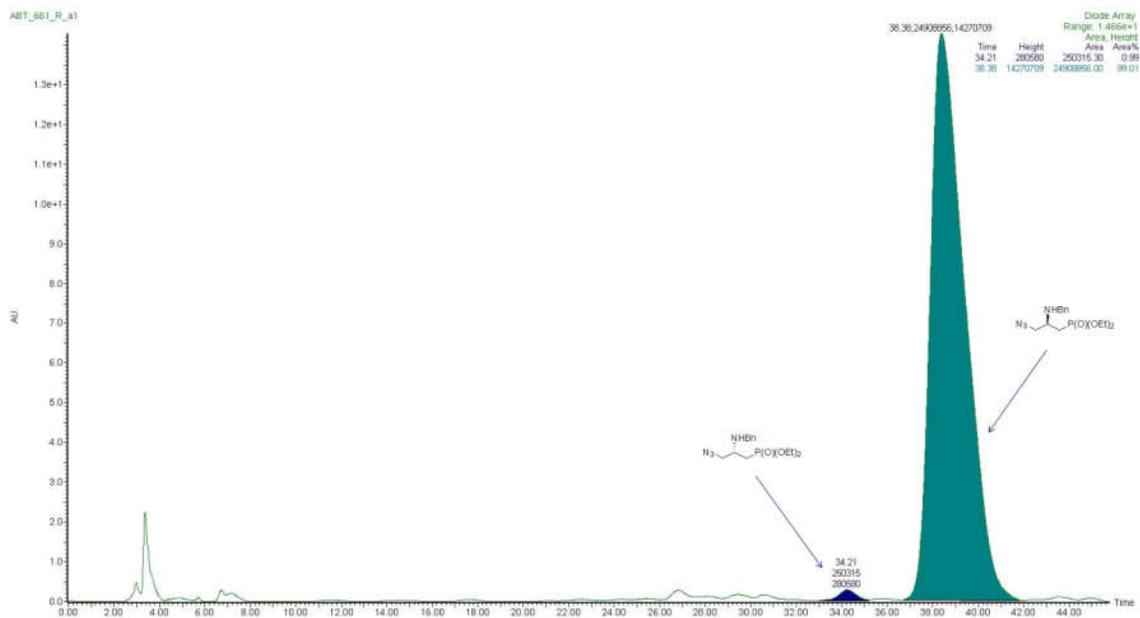


Figure S59. Analytical chromatogram for (S)-27

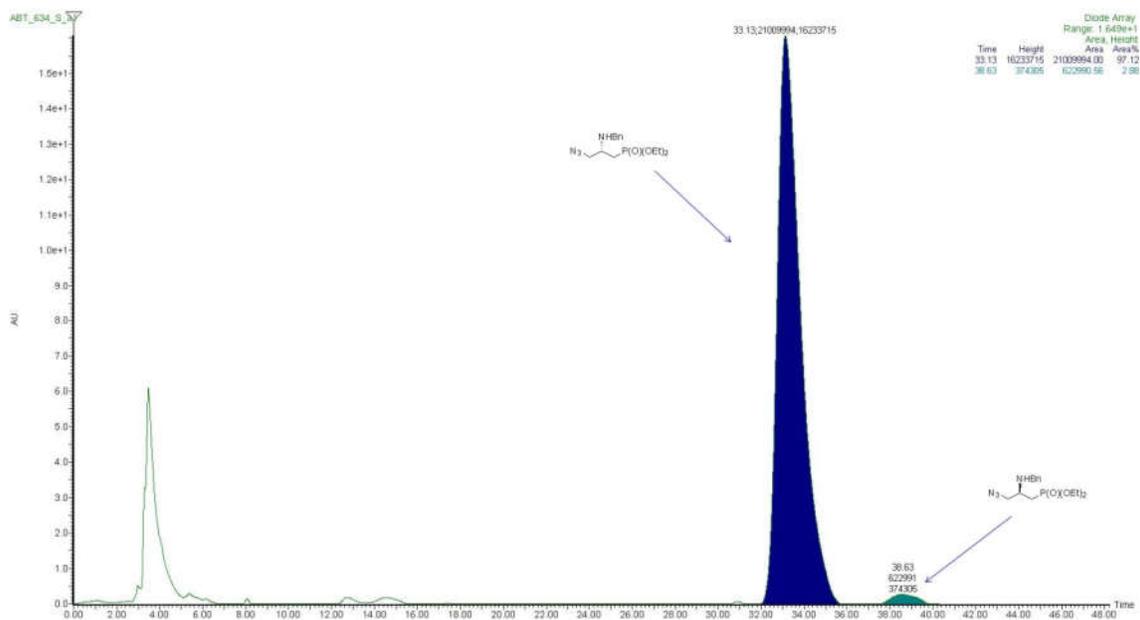


Figure S60. Analytical chromatogram for racemic 28

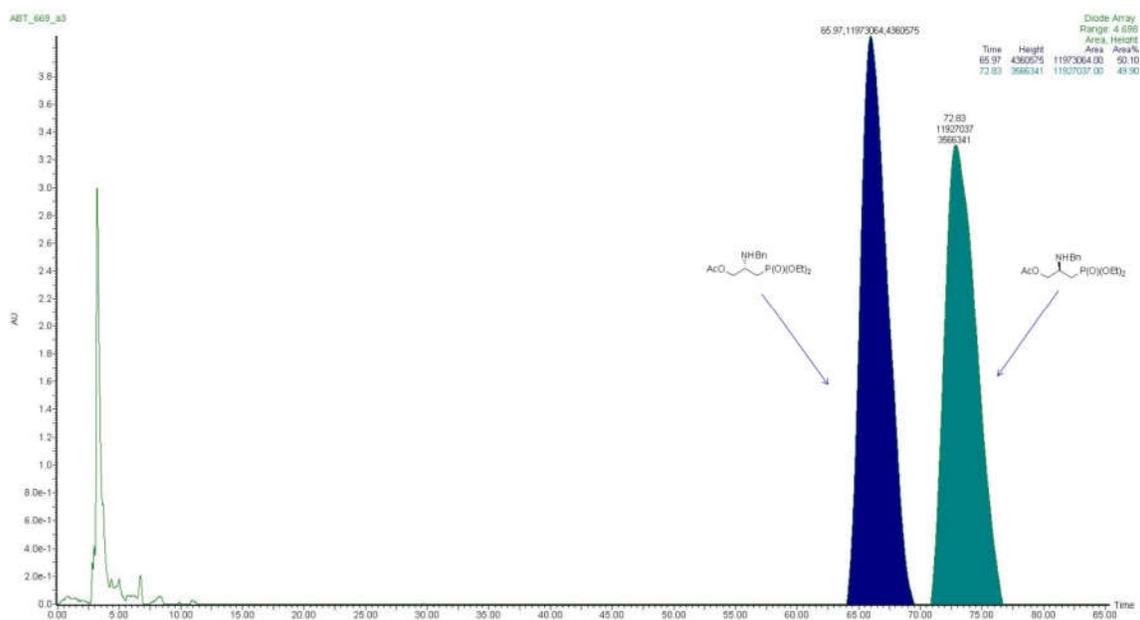


Figure S61. Analytical chromatogram for (R)-28

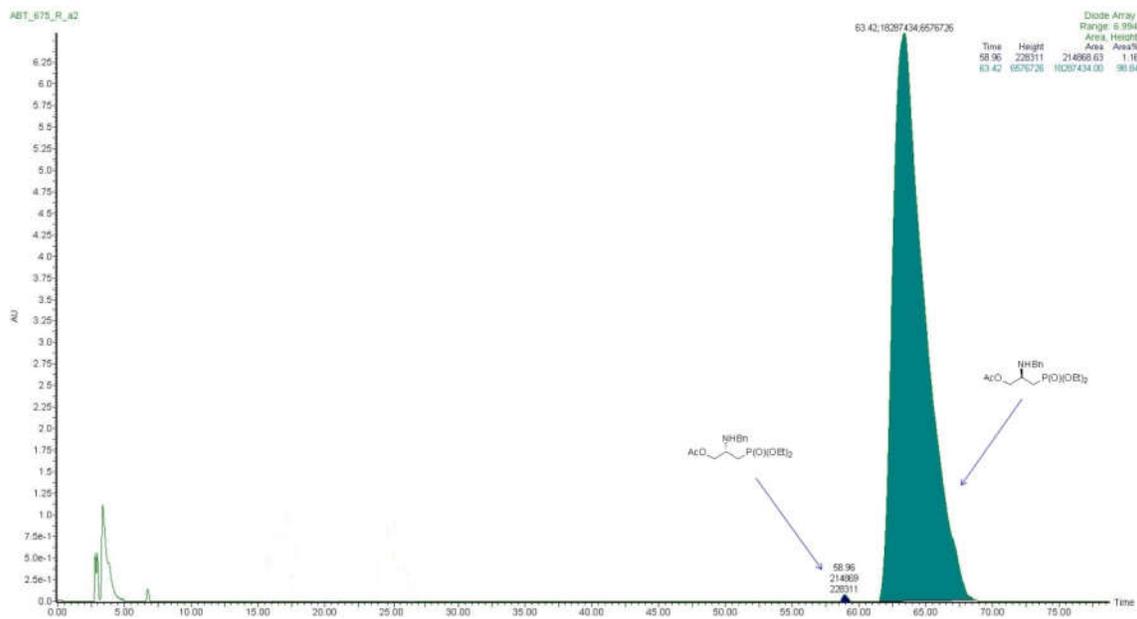


Figure S62. Analytical chromatogram for (S)-28

