

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

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Figure S1. ^1H NMR Spectrum for racemic **24** in CDCl_3

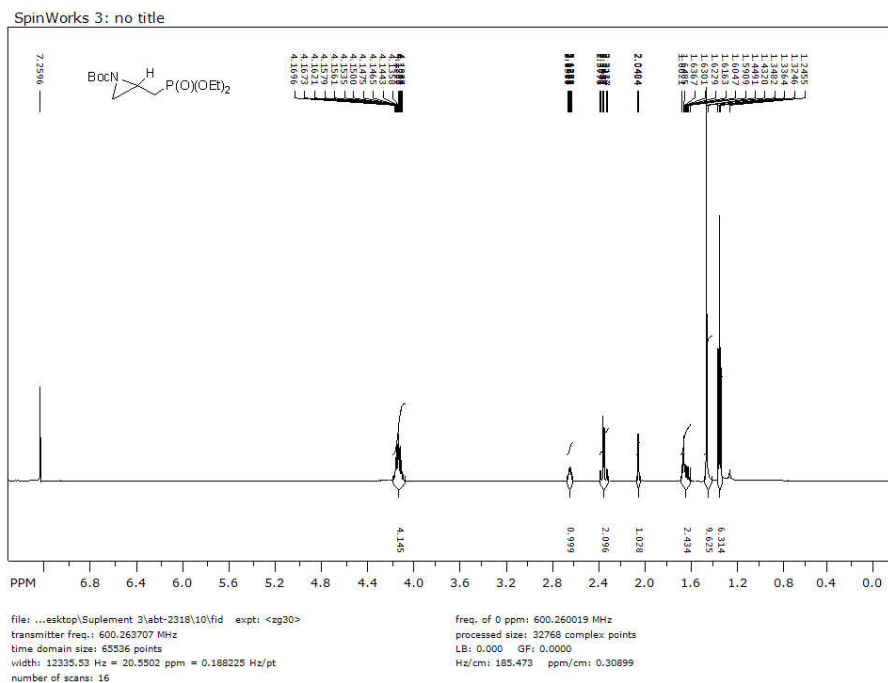


Figure S2. ^{13}C NMR Spectrum for racemic **24** in CDCl_3

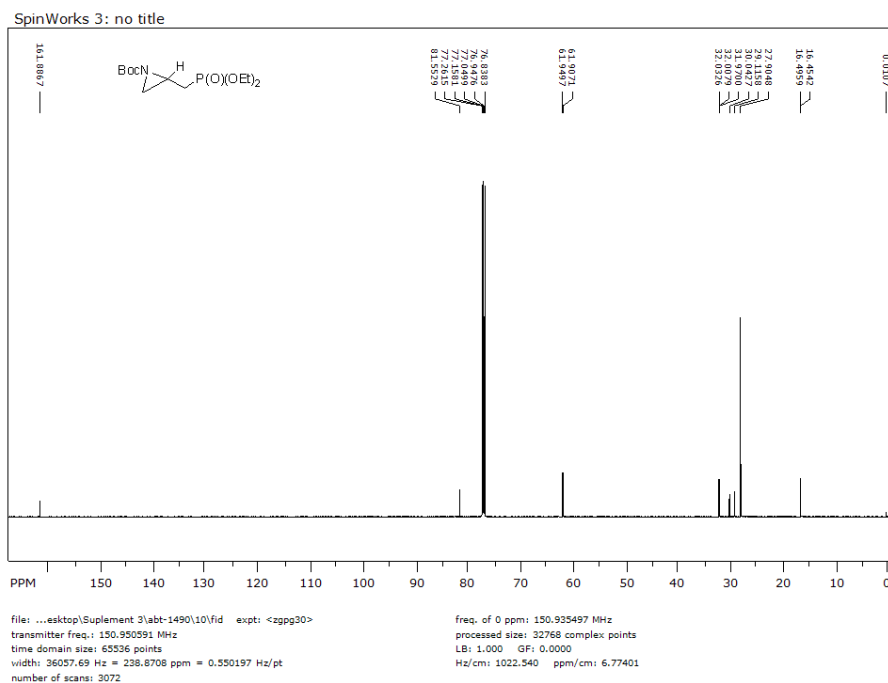


Figure S3. ^{31}P NMR Spectrum for racemic **24** in CDCl_3

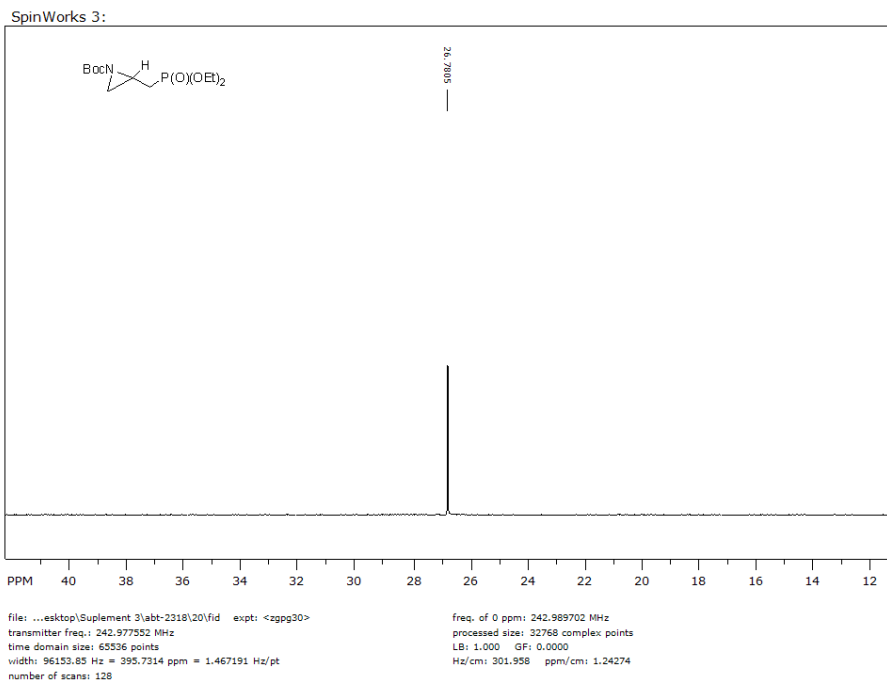


Figure S4. ^1H NMR Spectrum for (*R*)-**24** in CDCl_3

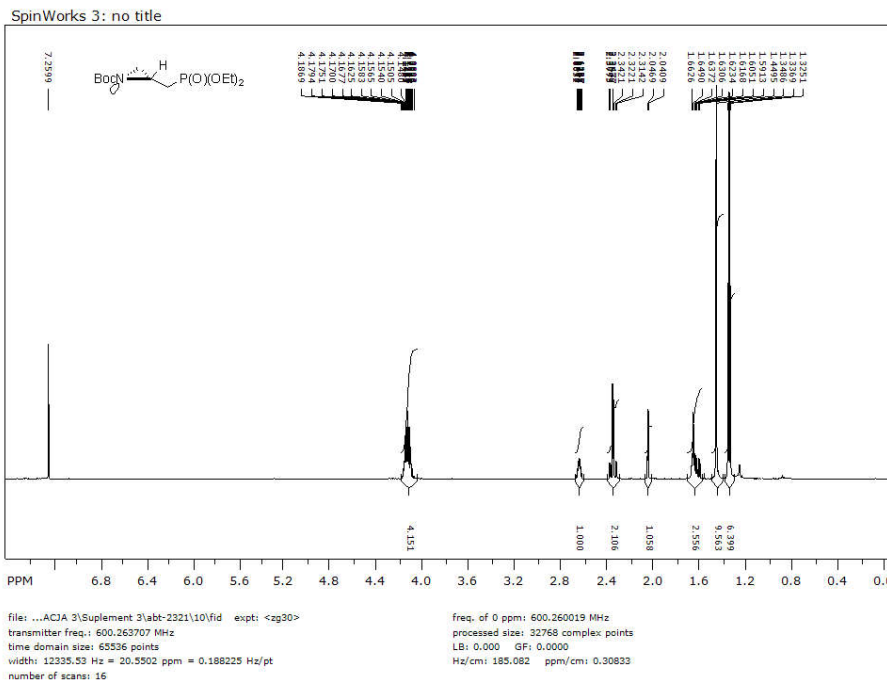


Figure S5. ^{31}P NMR Spectrum for (*R*)-**24** in CDCl_3

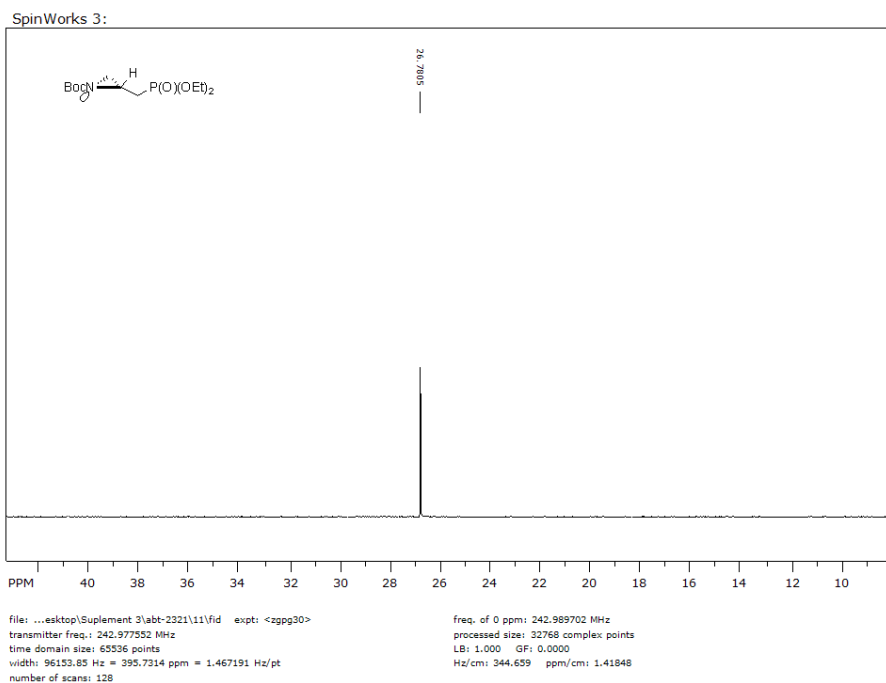


Figure S6. ^1H NMR Spectrum for (*S*)-**24** in CDCl_3

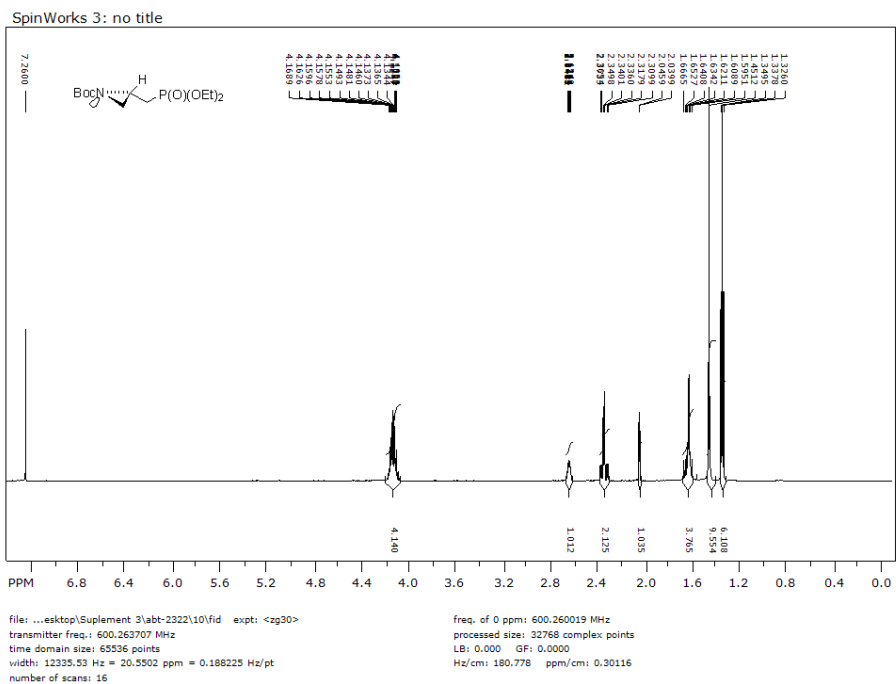


Figure S7. ^{31}P NMR Spectrum for (S)-**24** in CDCl_3

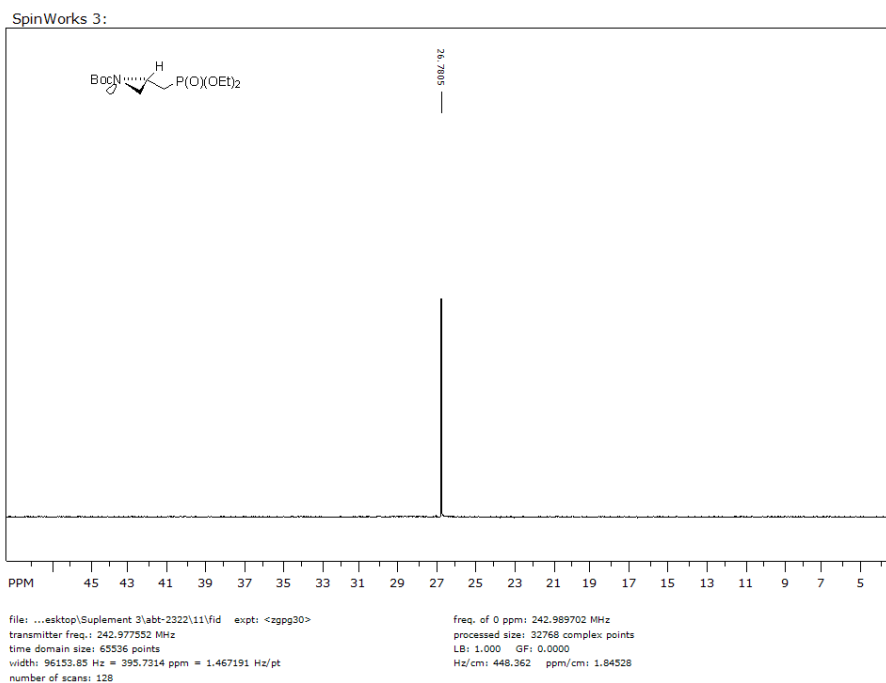


Figure S8. ^1H NMR Spectrum for racemic **25** in CDCl_3

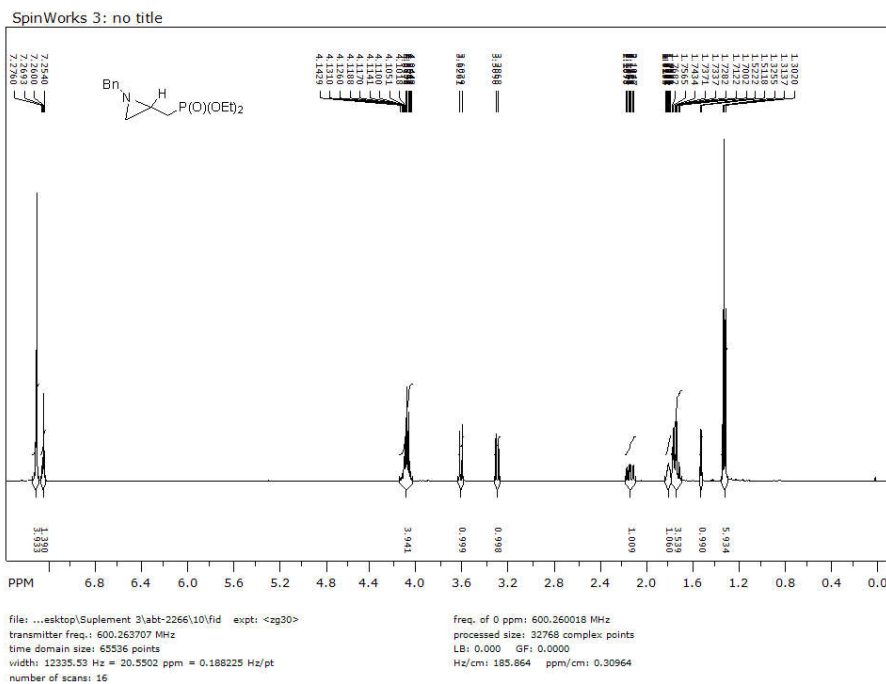


Figure S9. ^{13}C NMR Spectrum for racemic **25** in CDCl_3

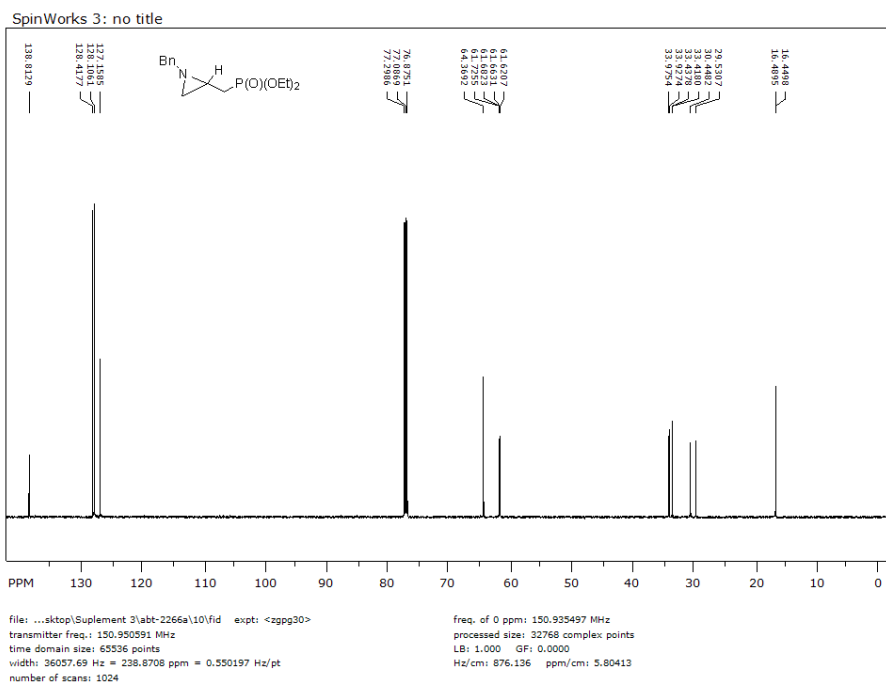


Figure S10. ^{31}P NMR Spectrum for racemic **25** in CDCl_3

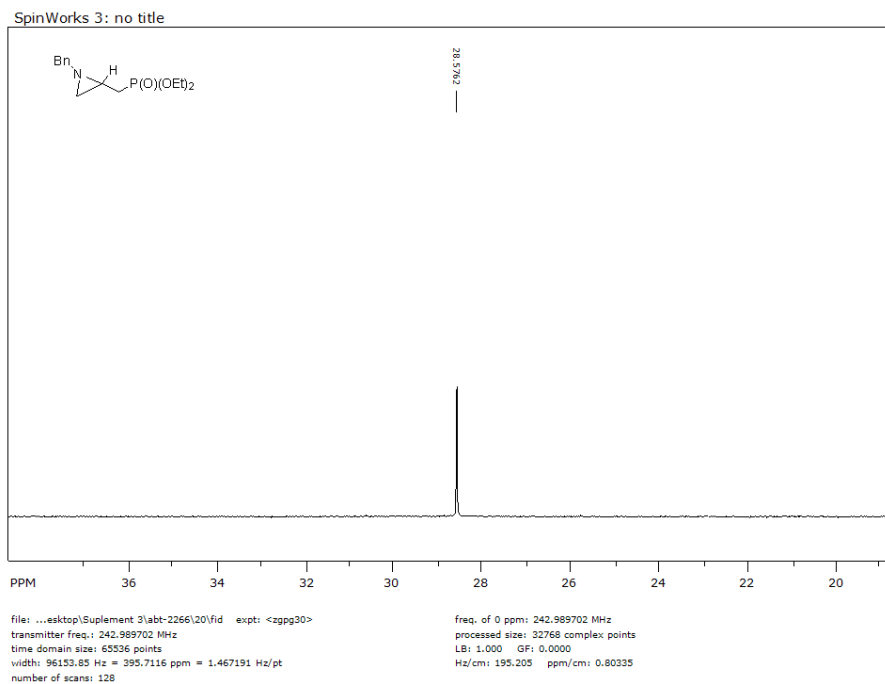


Figure S11. ^1H NMR Spectrum for (*R*)-**25** in CDCl_3

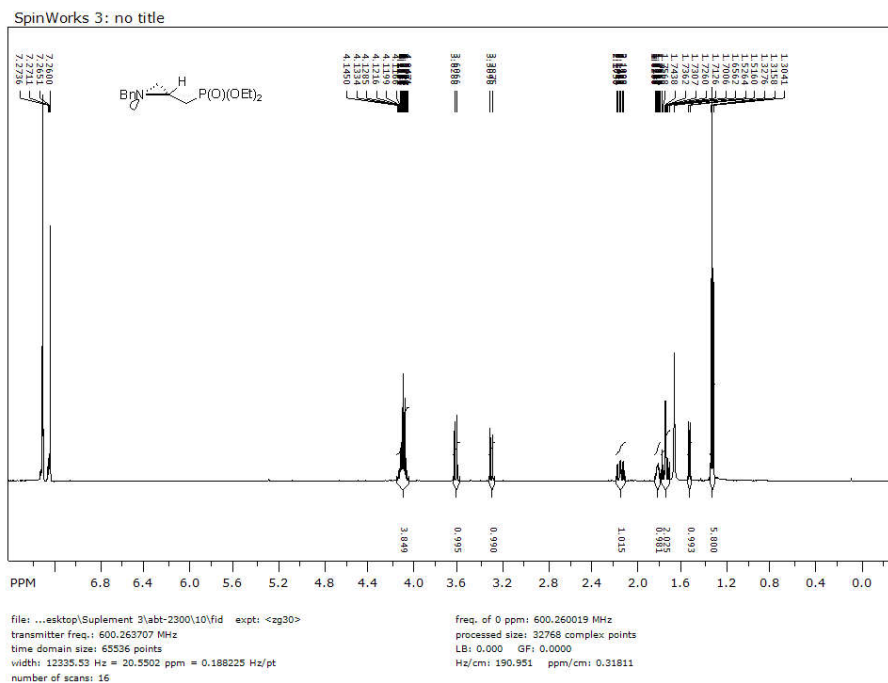


Figure S12. ^{31}P NMR Spectrum for (*R*)-**25** in CDCl_3

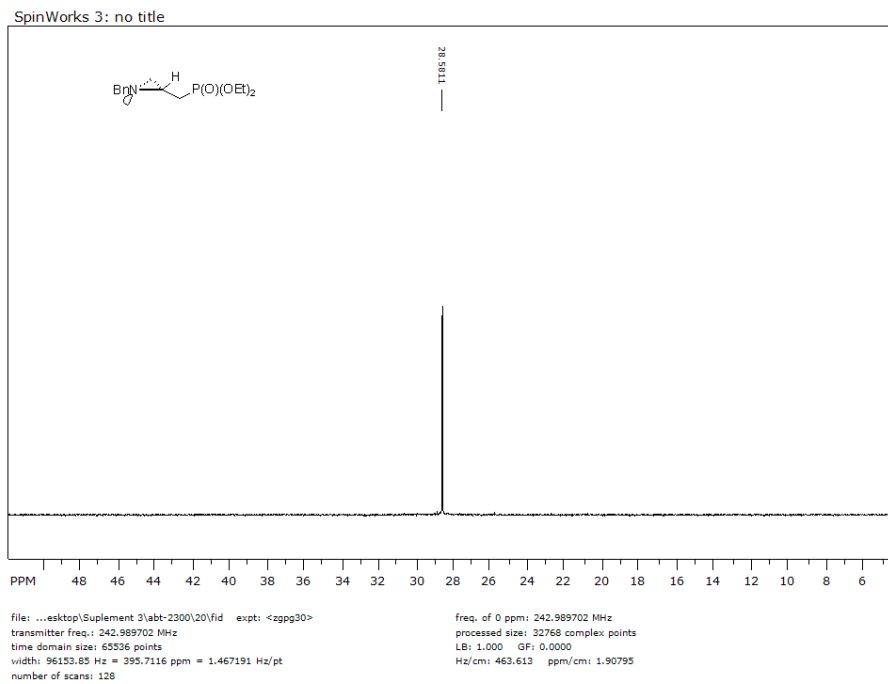


Figure S13. ^1H NMR Spectrum for (S)-**25** in CDCl_3

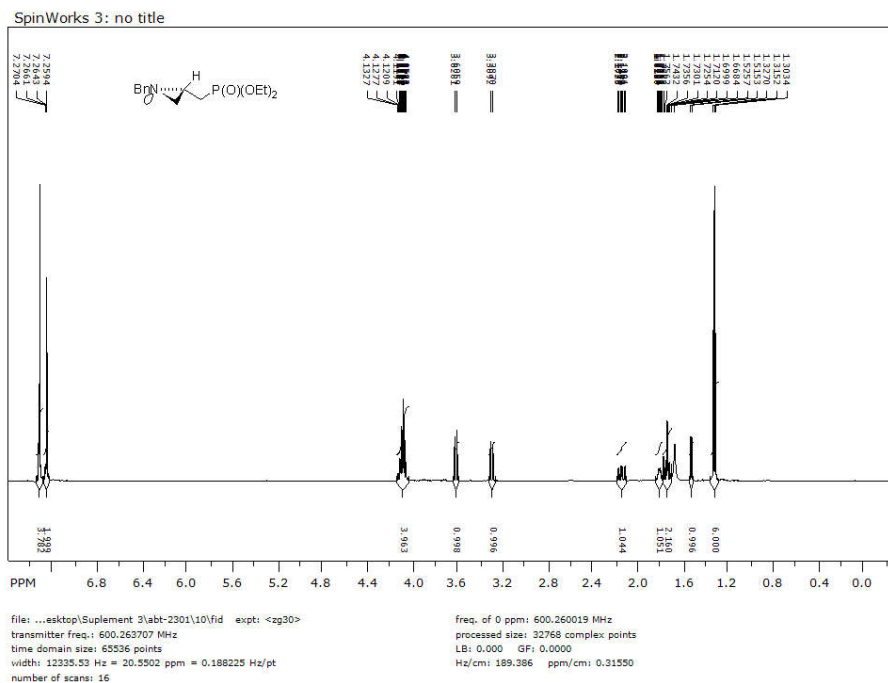


Figure S14. ^{31}P NMR Spectrum for (S)-**25** in CDCl_3

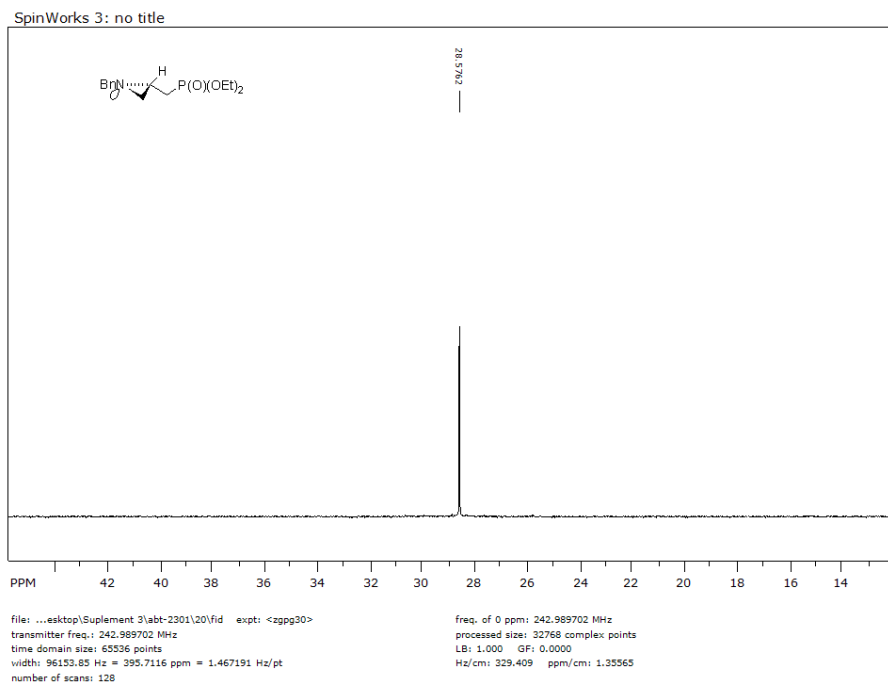


Figure S15. ^1H NMR Spectrum for racemic **26** in CDCl_3

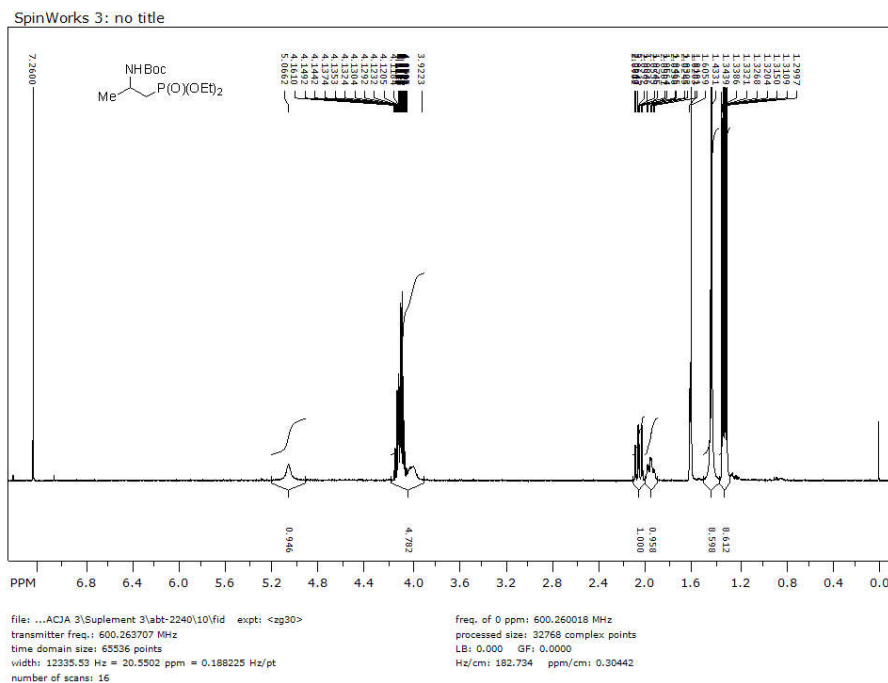


Figure S16. ^{13}C NMR Spectrum for racemic **26** in CDCl_3

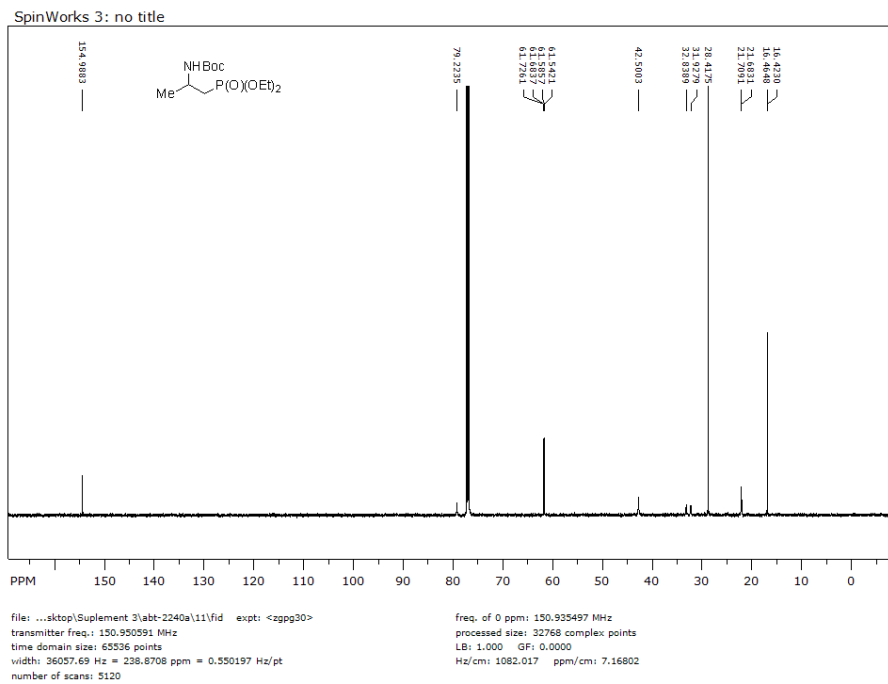


Figure S17. ^{31}P NMR Spectrum for racemic **26** in CDCl_3

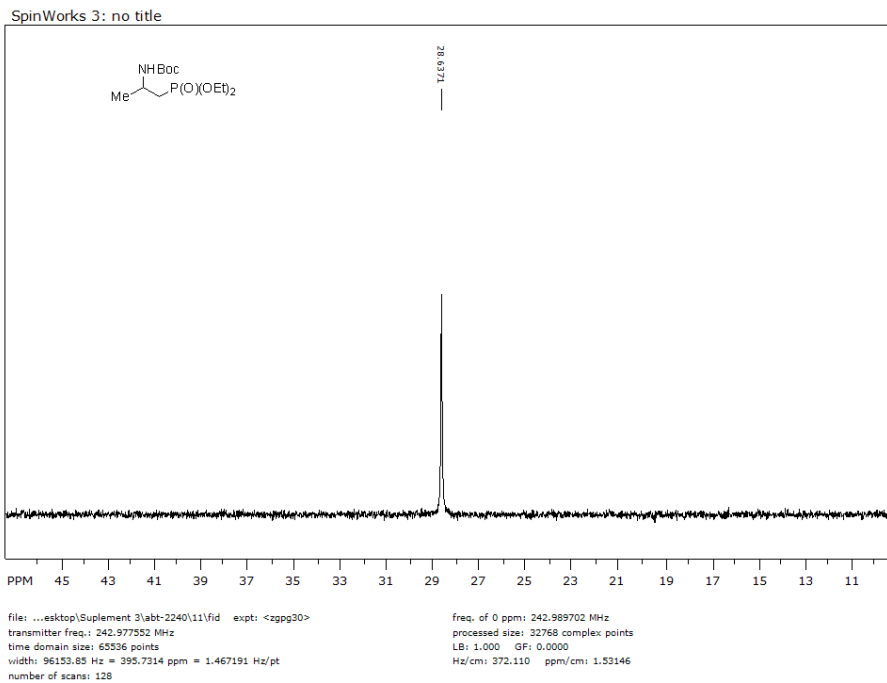


Figure S18. ^1H NMR Spectrum for (*R*)-**26** in CDCl_3

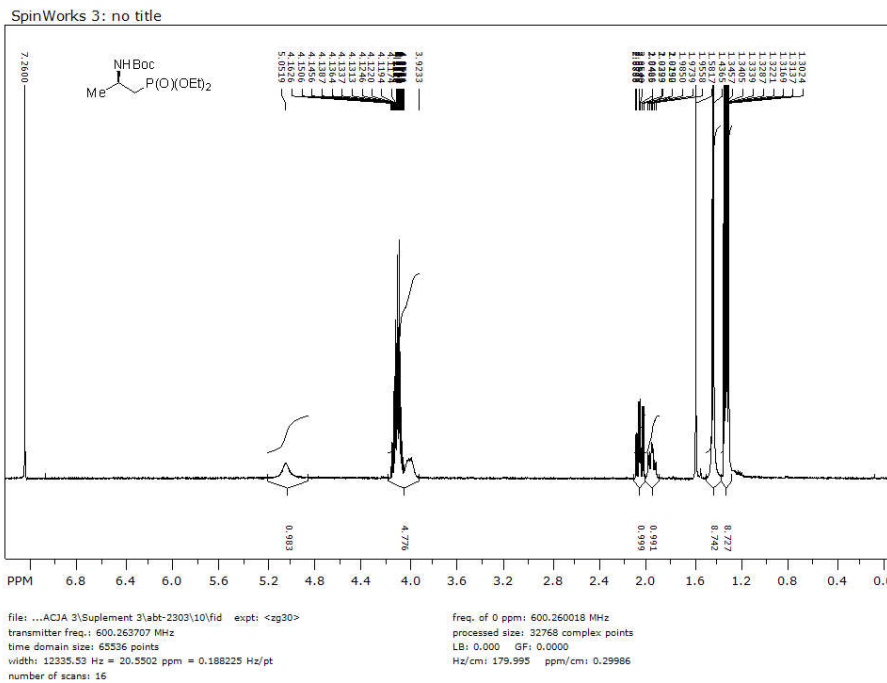


Figure S19. ^{31}P NMR Spectrum for (R)-**26** in CDCl_3

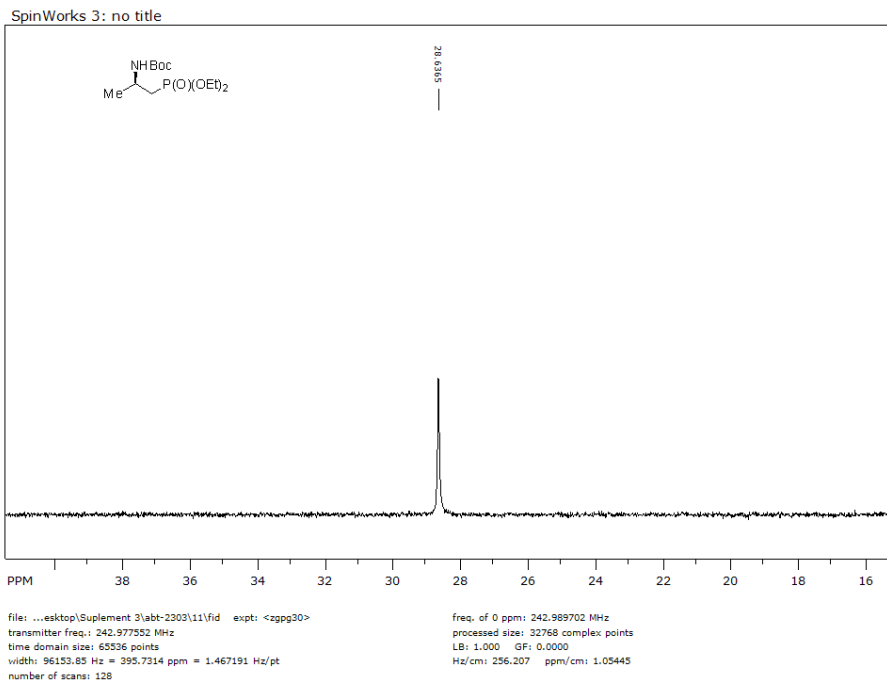


Figure S20. ^1H NMR Spectrum for (S)-**26** in CDCl_3

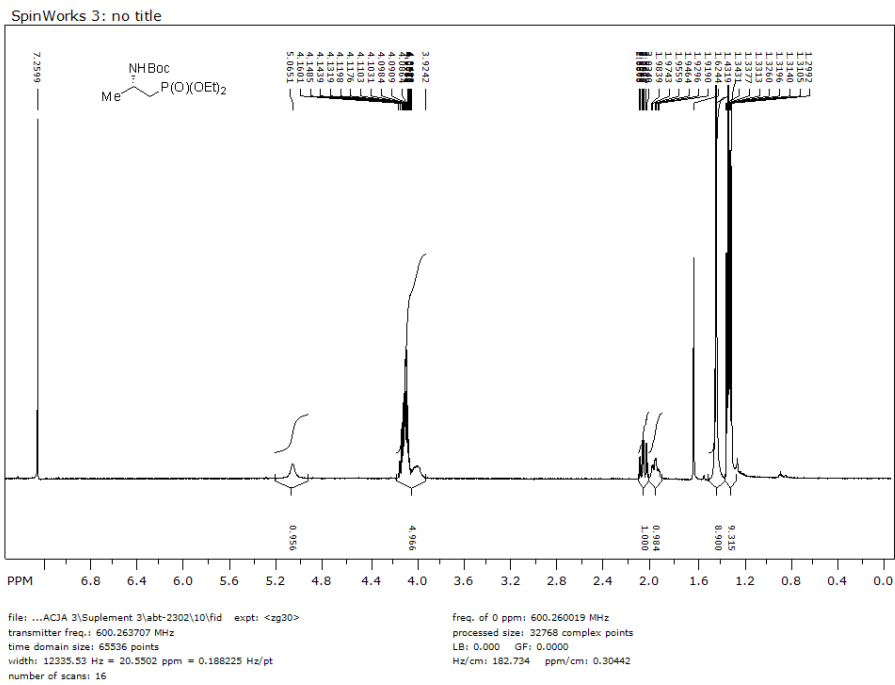


Figure S21. ^{31}P NMR Spectrum for (*S*)-**26** in CDCl_3

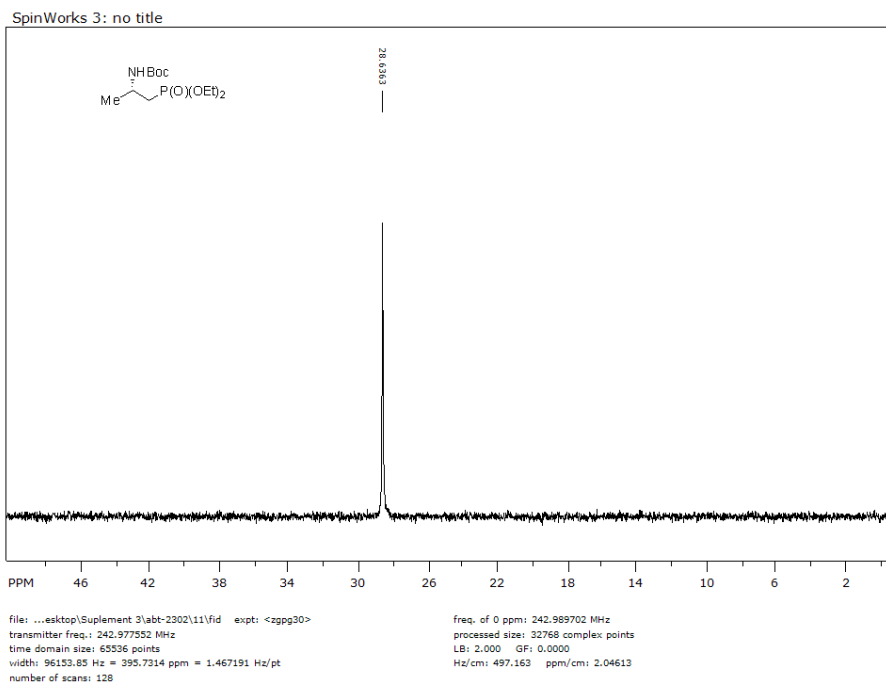


Figure S22. ^1H NMR Spectrum for racemic **27** in CDCl_3

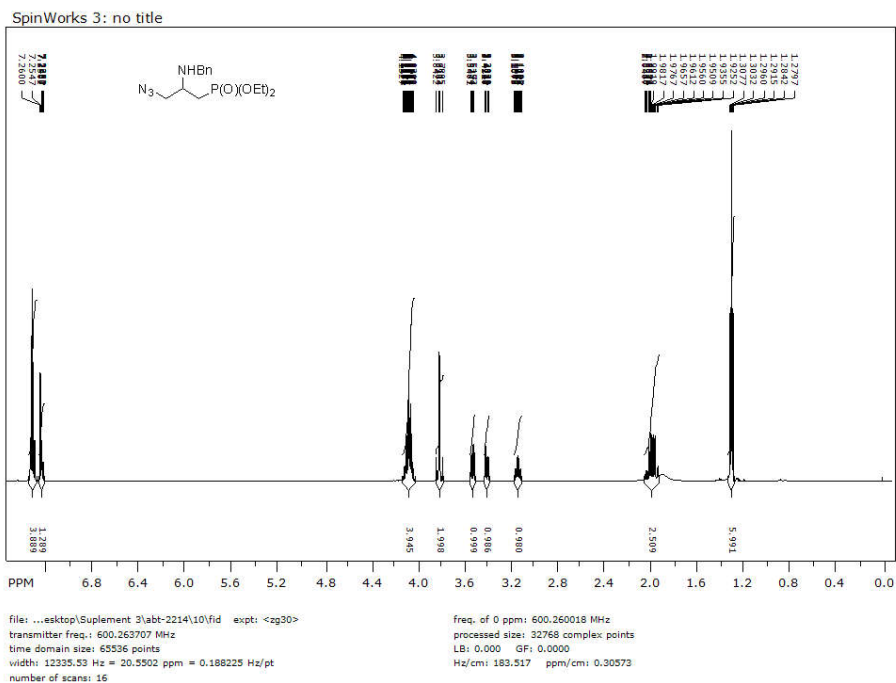


Figure S23. ^{13}C NMR Spectrum for racemic **27** in CDCl_3

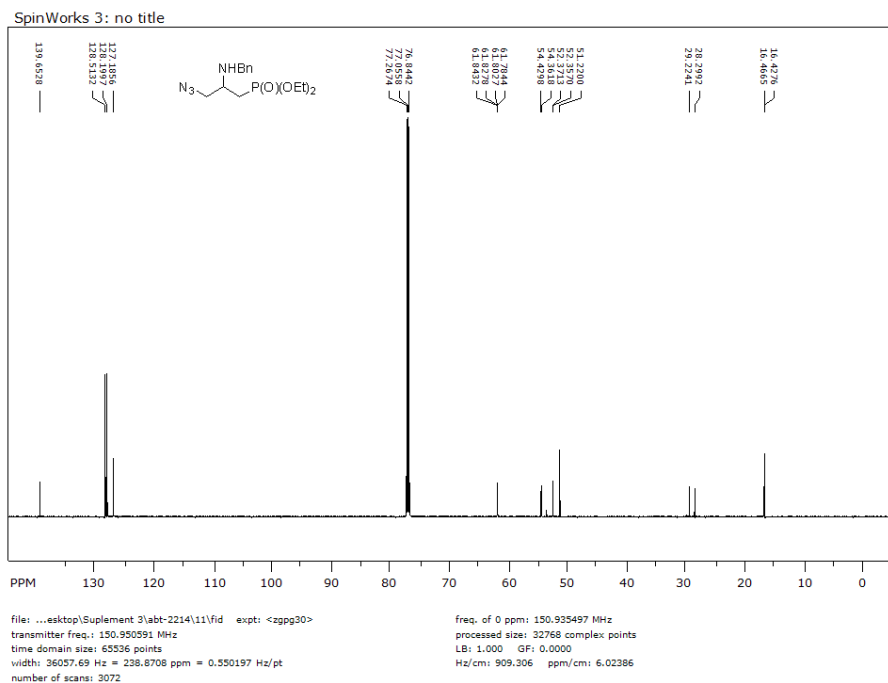


Figure S24. ^{31}P NMR Spectrum for racemic **27** in CDCl_3

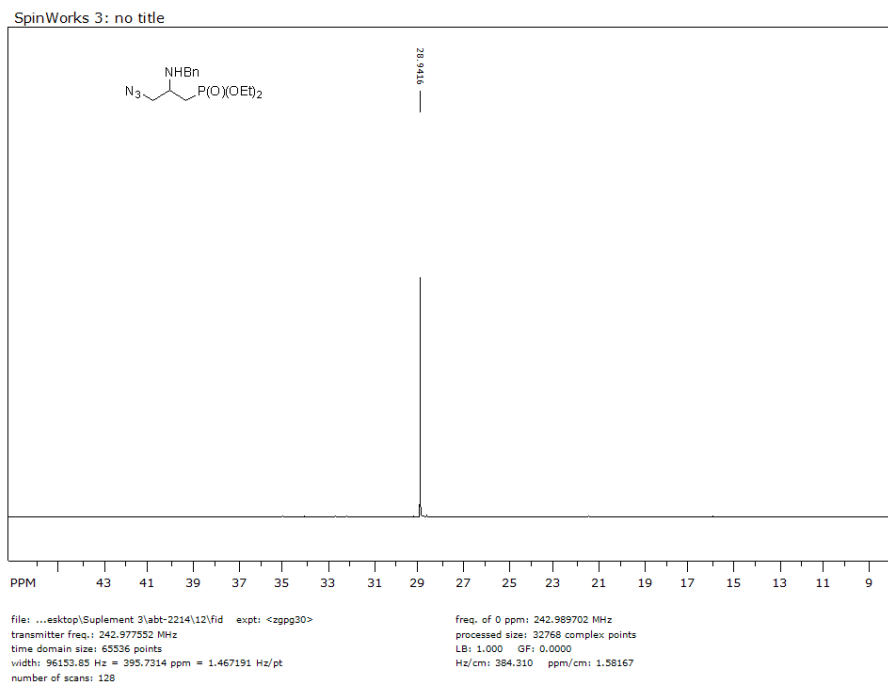


Figure S25. ^1H NMR Spectrum for (R)-**27** in CDCl_3

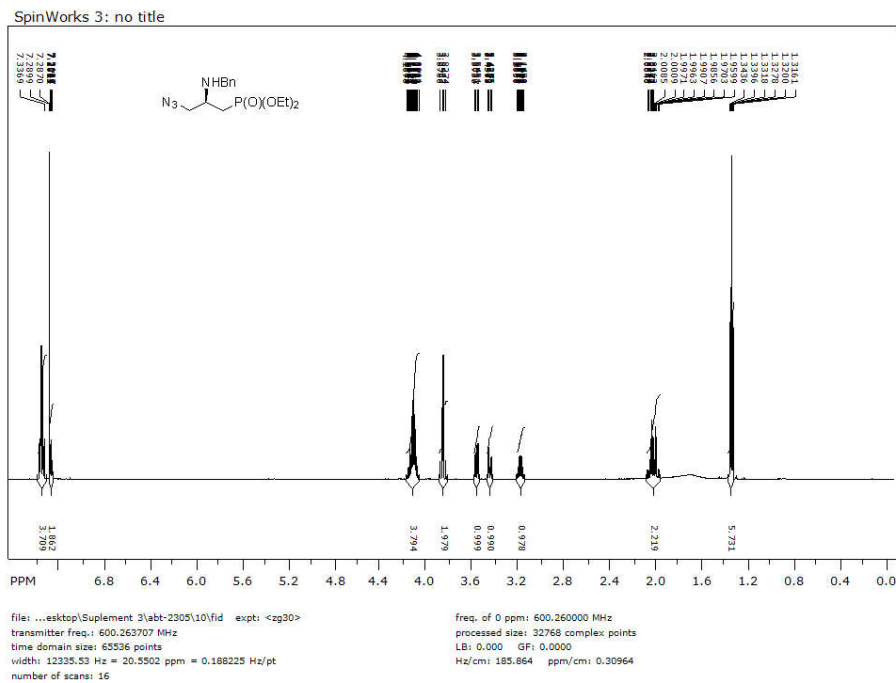


Figure S26. ^{31}P NMR Spectrum for (*R*)-**27** in CDCl_3

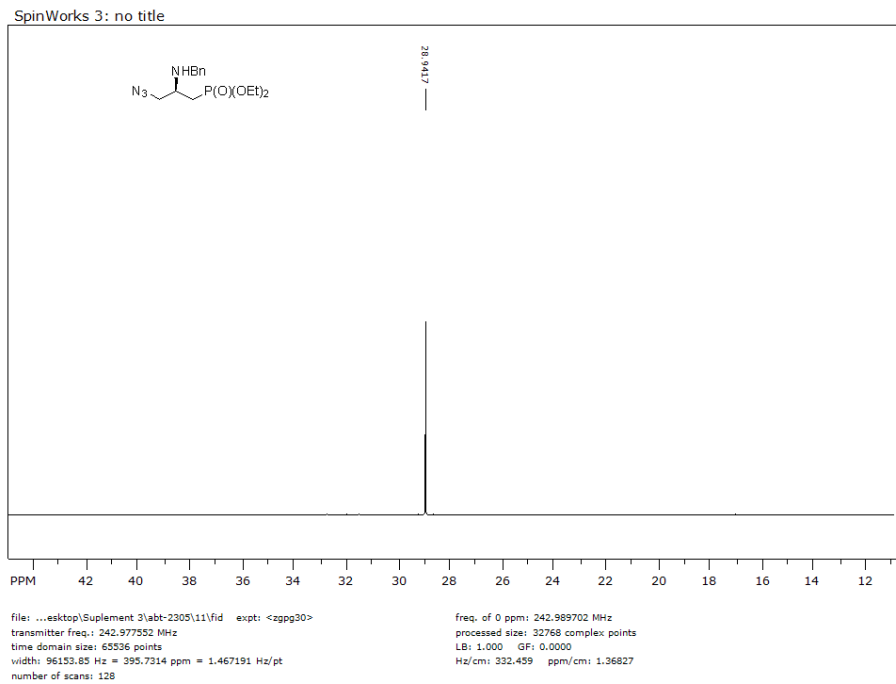


Figure S27. ^1H NMR Spectrum for (S)-27 in CDCl_3

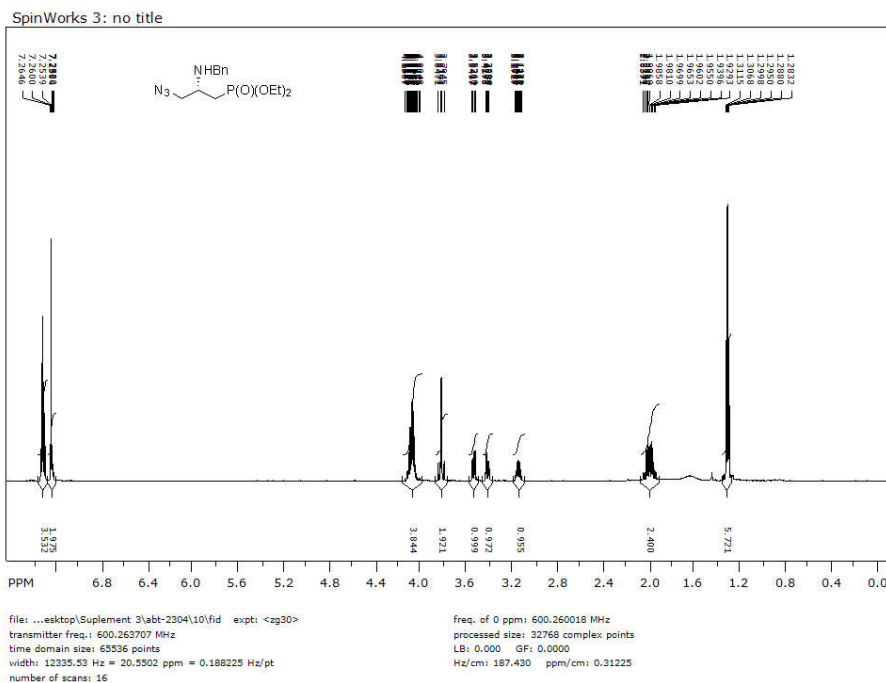


Figure S28. ^{31}P NMR Spectrum for (S)-27 in CDCl_3

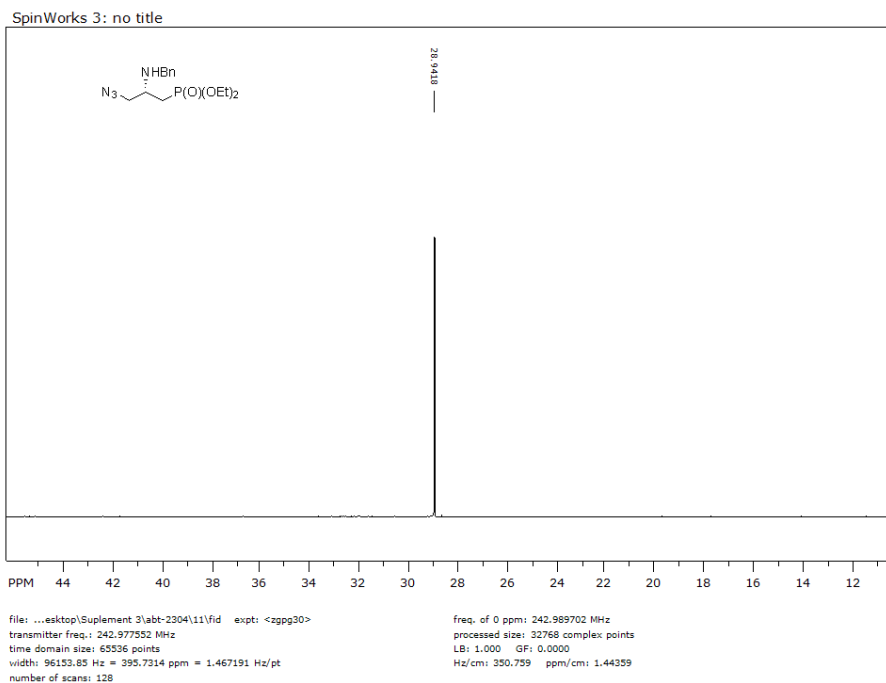


Figure S29. ^1H NMR Spectrum for racemic **28** in CDCl_3

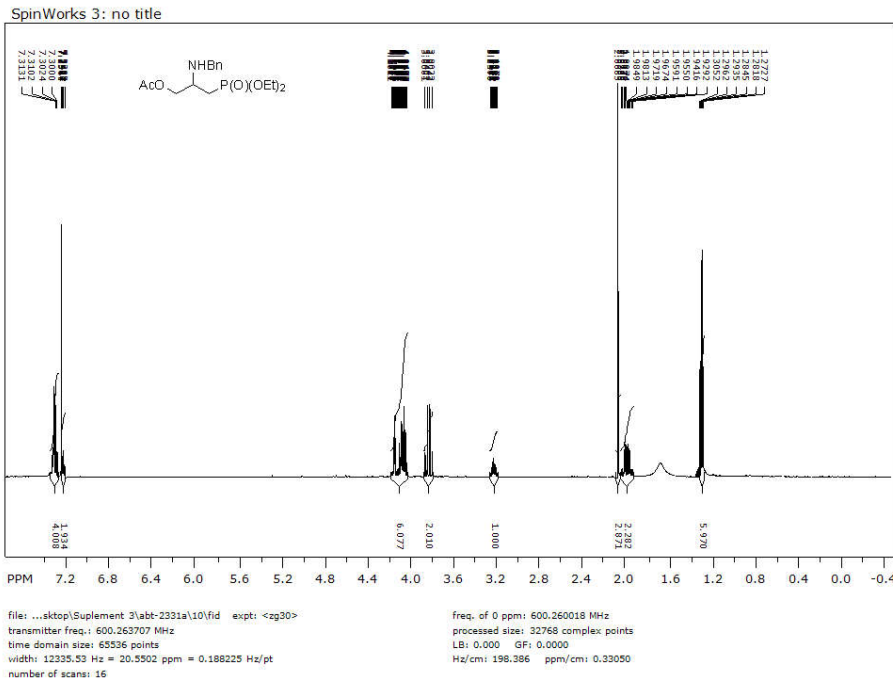


Figure S30. ^{13}C NMR Spectrum for racemic **28** in CDCl_3

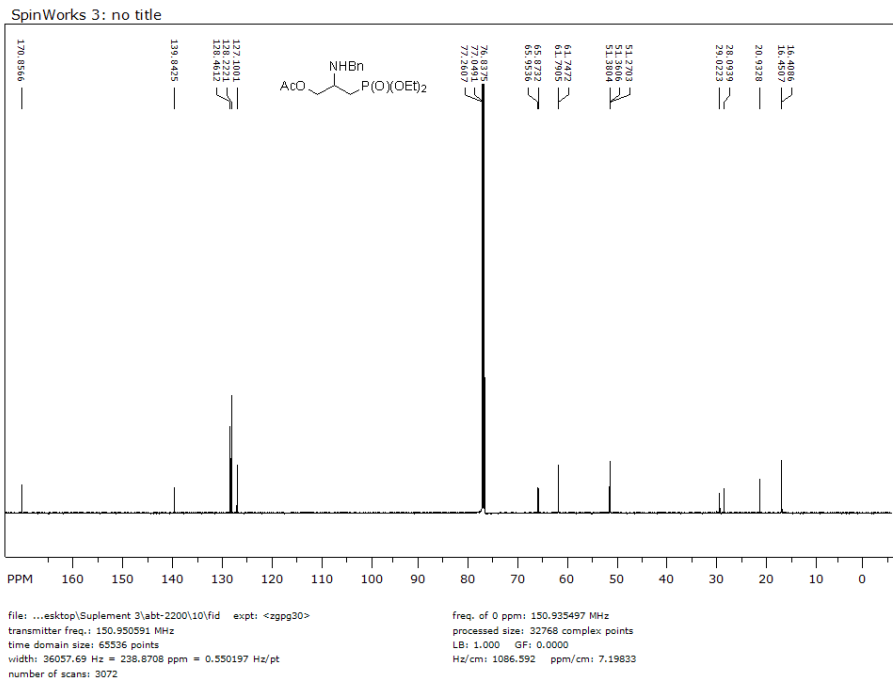


Figure S31. ^{31}P NMR Spectrum for racemic **28** in CDCl_3

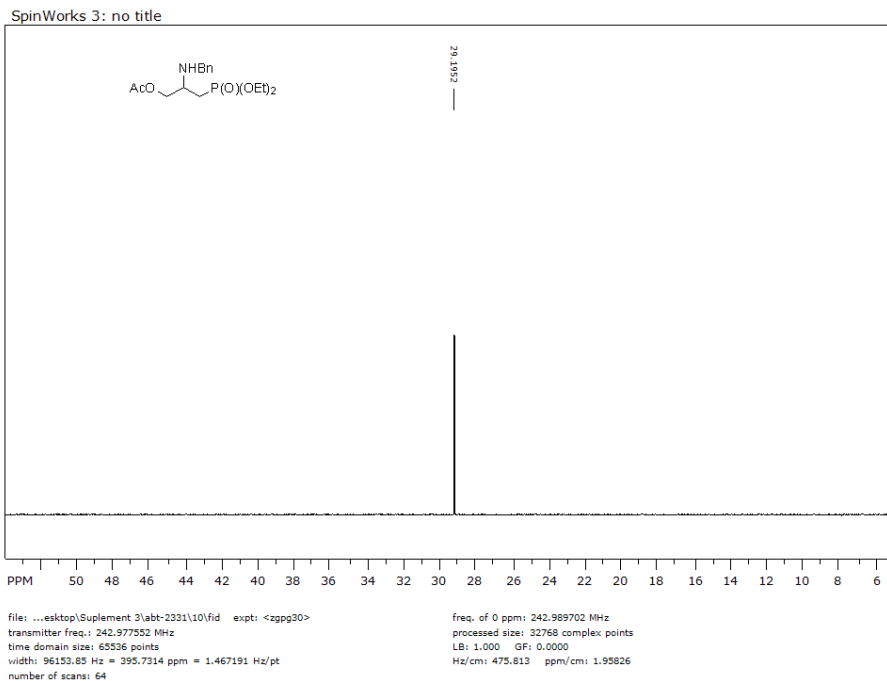


Figure S32. ^1H NMR Spectrum for (*R*)-**28** in CDCl_3

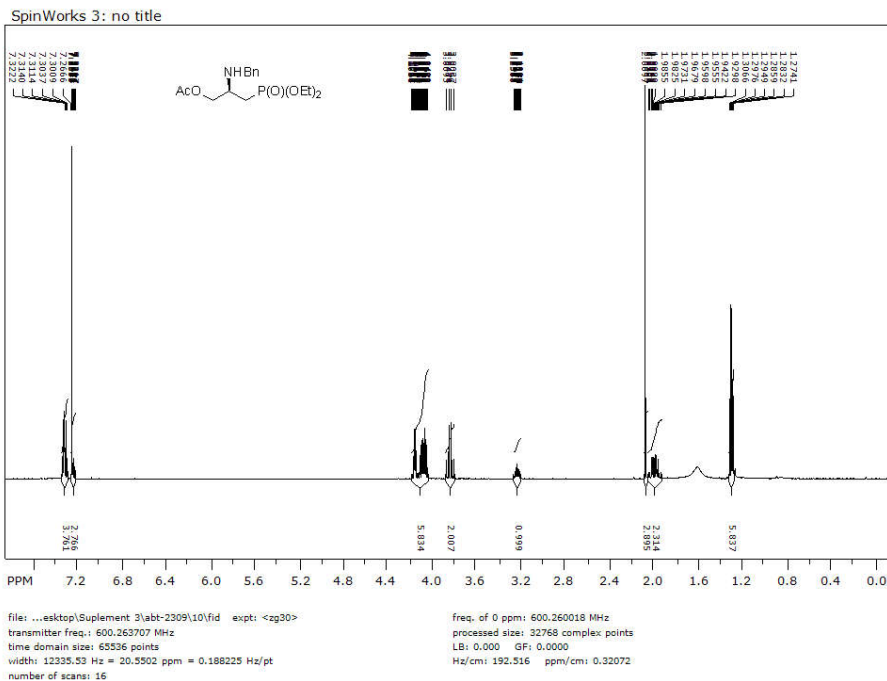


Figure S33. ^{31}P NMR Spectrum for (R)-**28** in CDCl_3

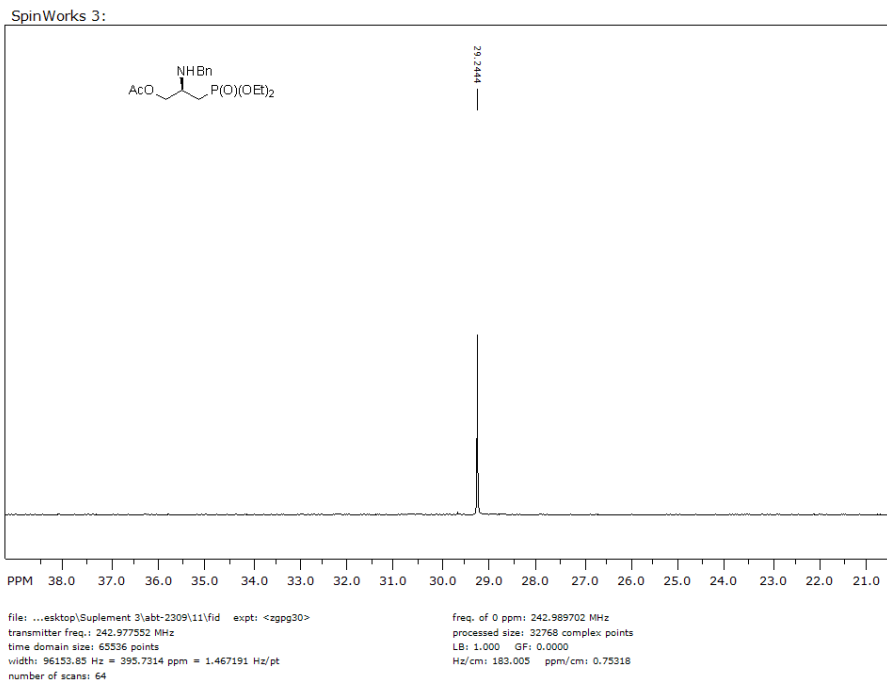


Figure S34. ^1H NMR Spectrum for (S)-28 in CDCl_3

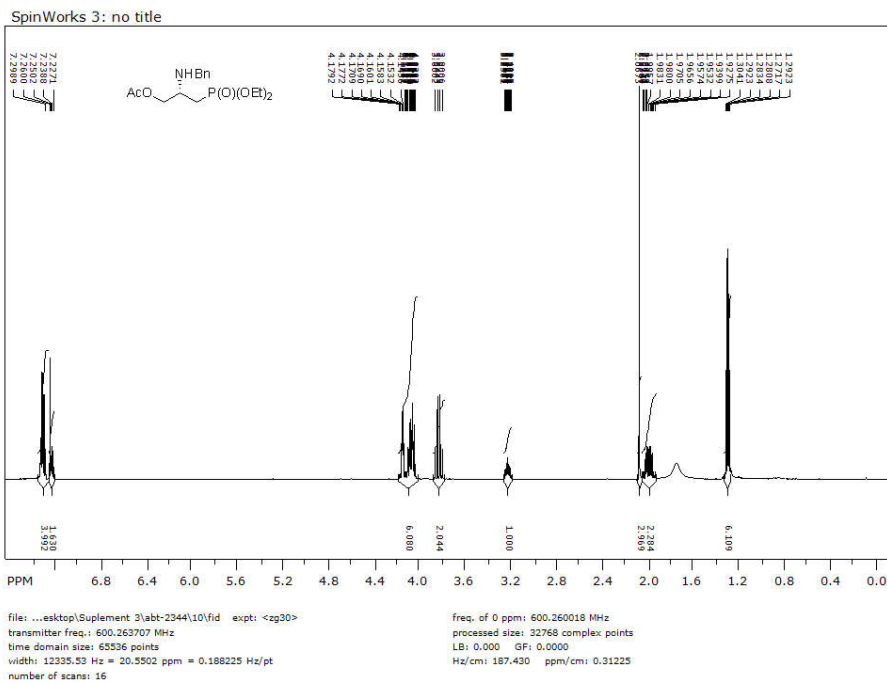


Figure S35. ^{31}P NMR Spectrum for (S)-**28** in CDCl_3

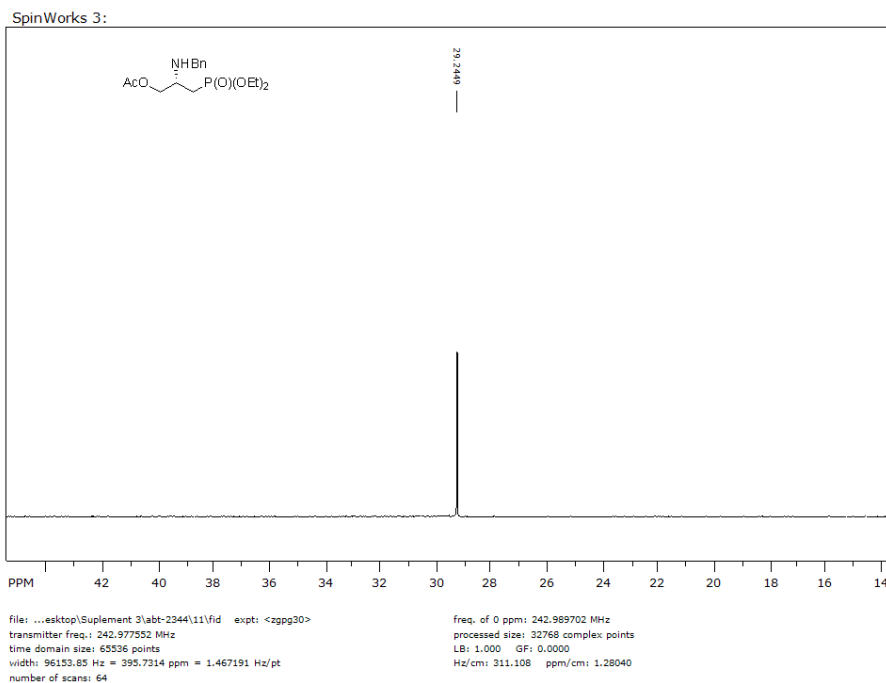


Figure S36. ^1H NMR Spectrum for racemic **29** in CDCl_3

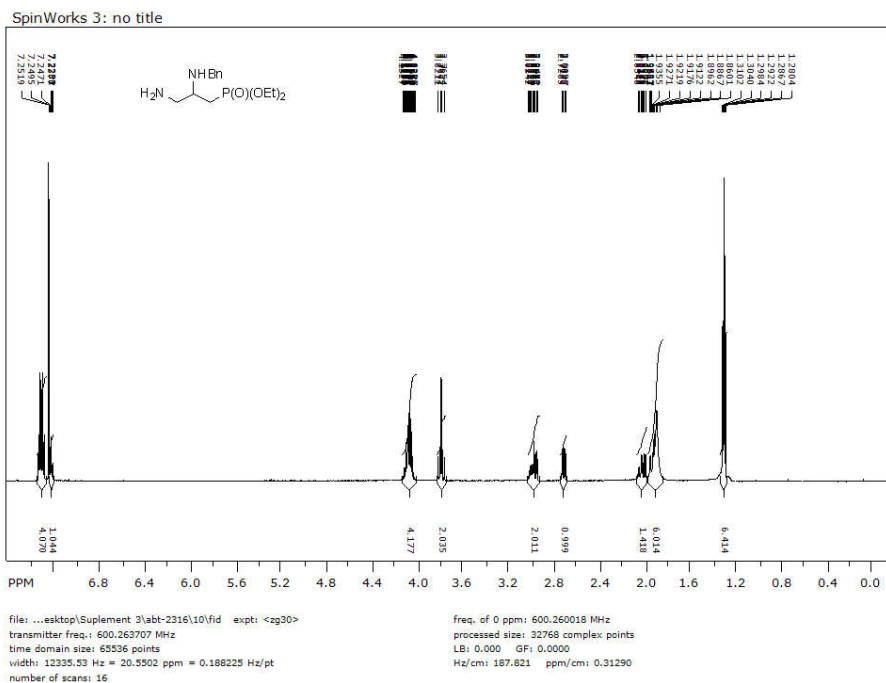


Figure S37. ^{13}C NMR Spectrum for racemic **29** in CDCl_3

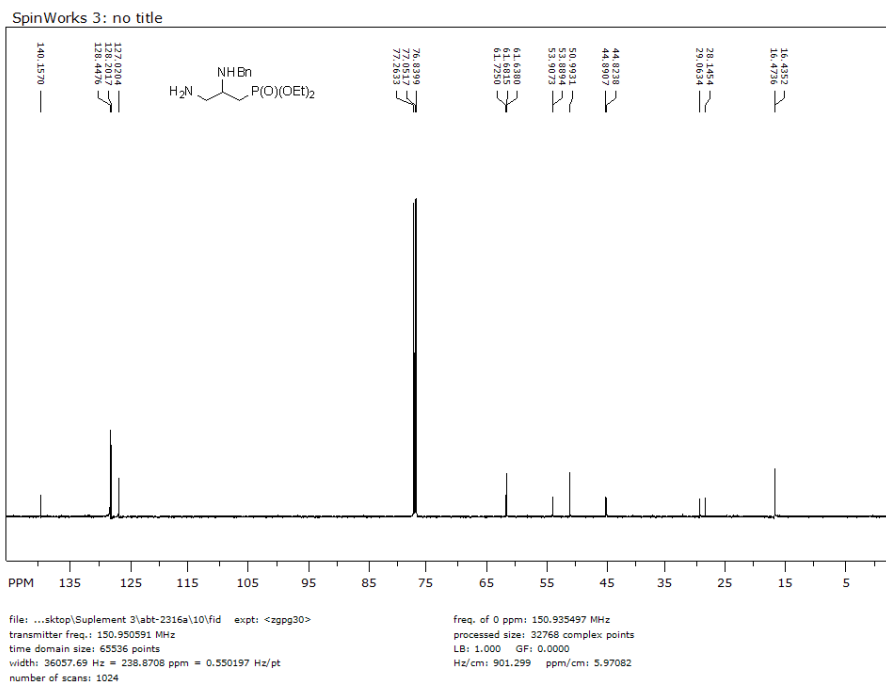


Figure S38. ^{31}P NMR Spectrum for racemic **29** in CDCl_3

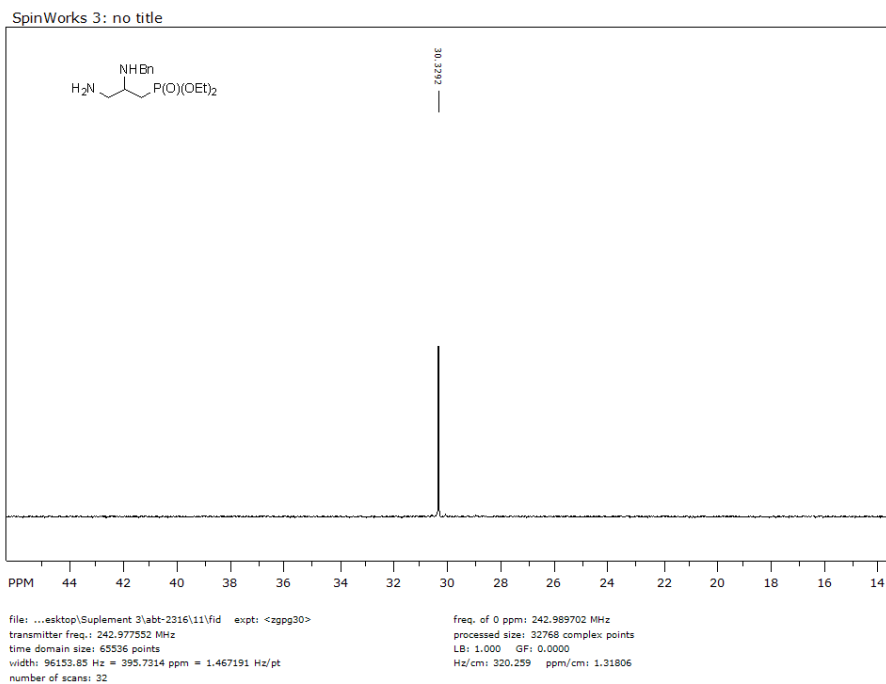


Figure S39. ^1H NMR Spectrum for (*R*)-**29** in CDCl_3

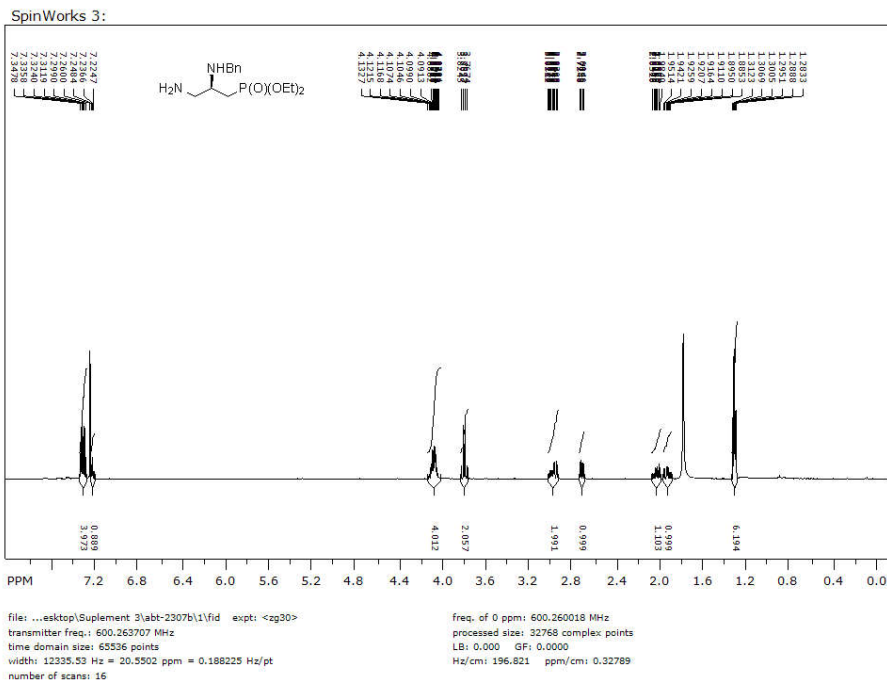


Figure S40. ^{31}P NMR Spectrum for (*R*)-**29** in CDCl_3

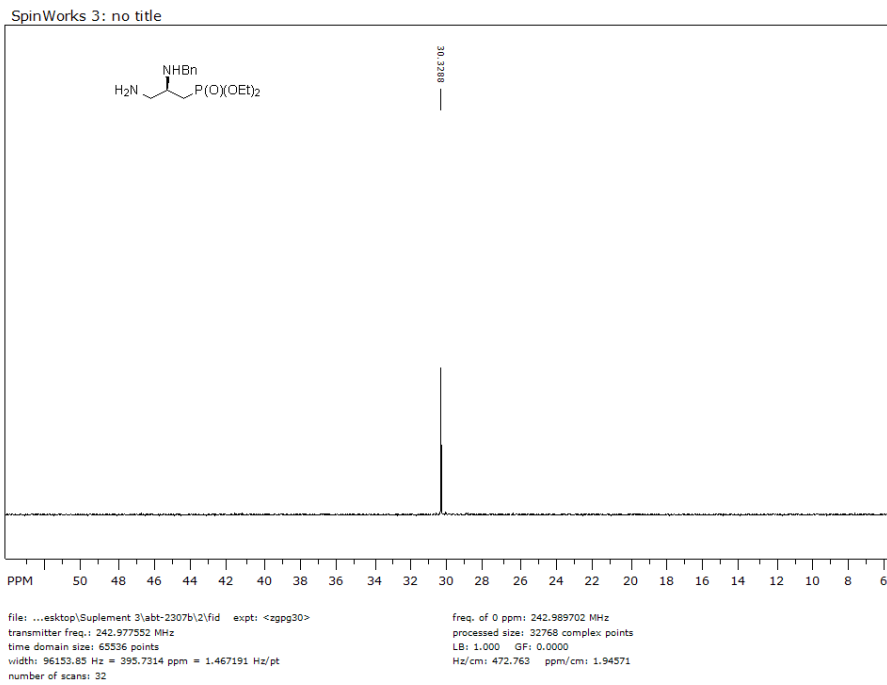


Figure S41. ^1H NMR Spectrum for (S)-**29** in CDCl_3

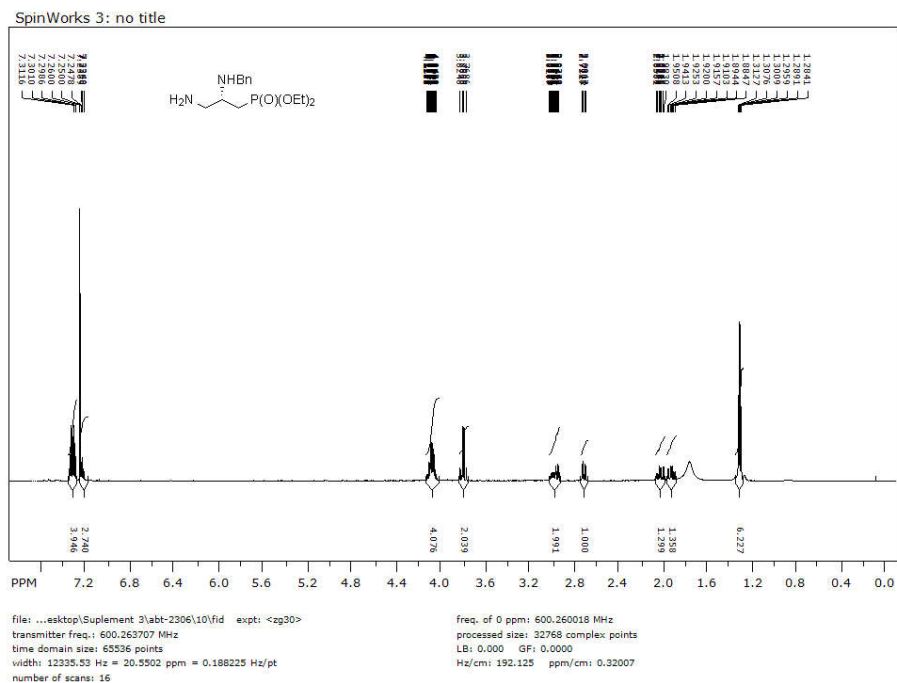


Figure S42. ^{31}P NMR Spectrum for (S)-**29** in CDCl_3

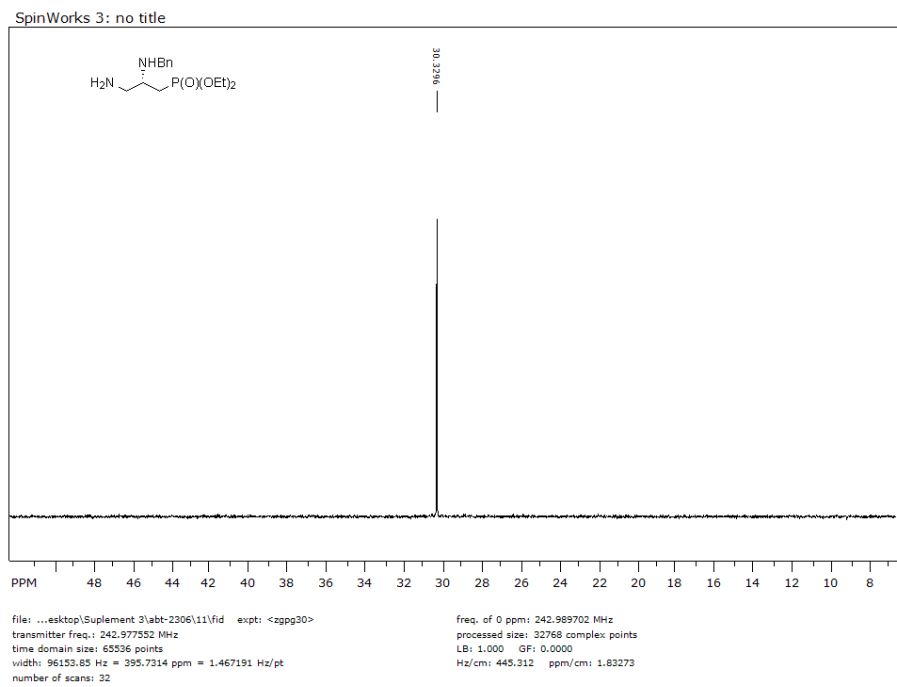


Figure S43. ^1H NMR Spectrum for racemic **34** in CDCl_3

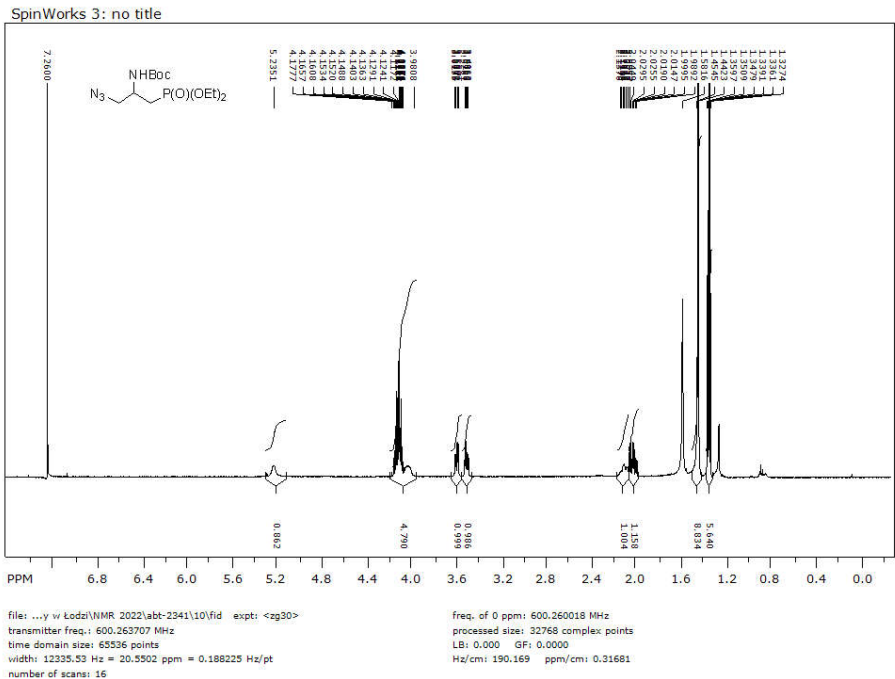


Figure S44. ^{13}C NMR Spectrum for racemic **34** in CDCl_3

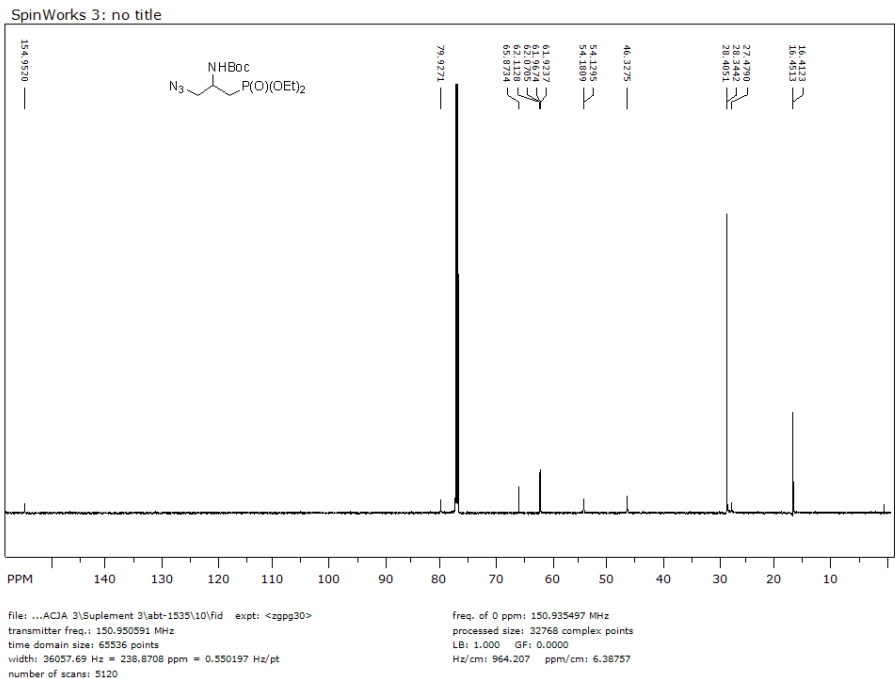


Figure S45. ^{31}P NMR Spectrum for racemic **34** in CDCl_3

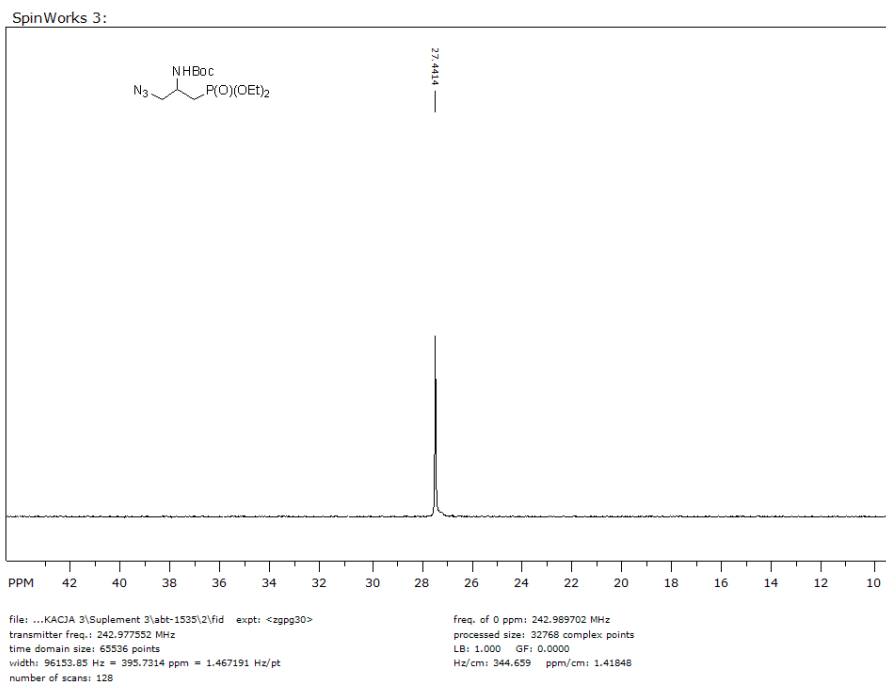


Figure S46. ^1H NMR Spectrum for racemic **35** in CDCl_3

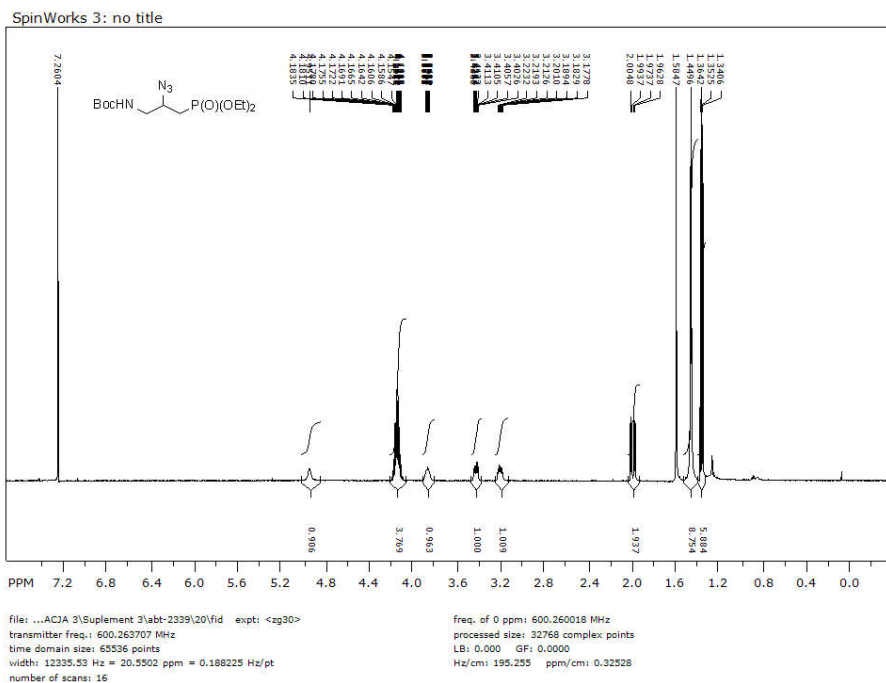


Figure S47. ^{13}C NMR Spectrum for racemic **35** in CDCl_3

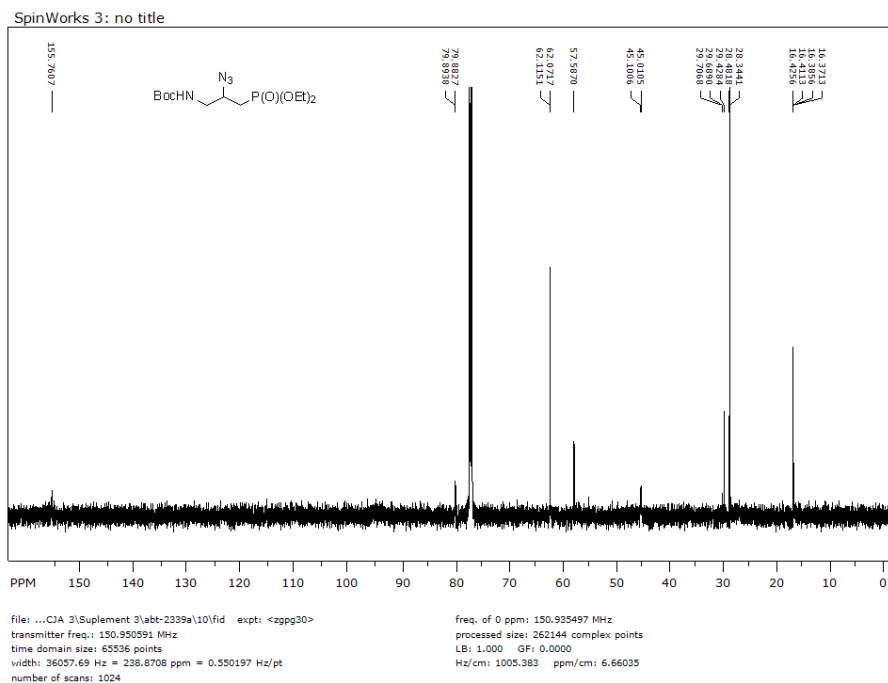


Figure S48. ^{31}P NMR Spectrum for racemic **35** in CDCl_3

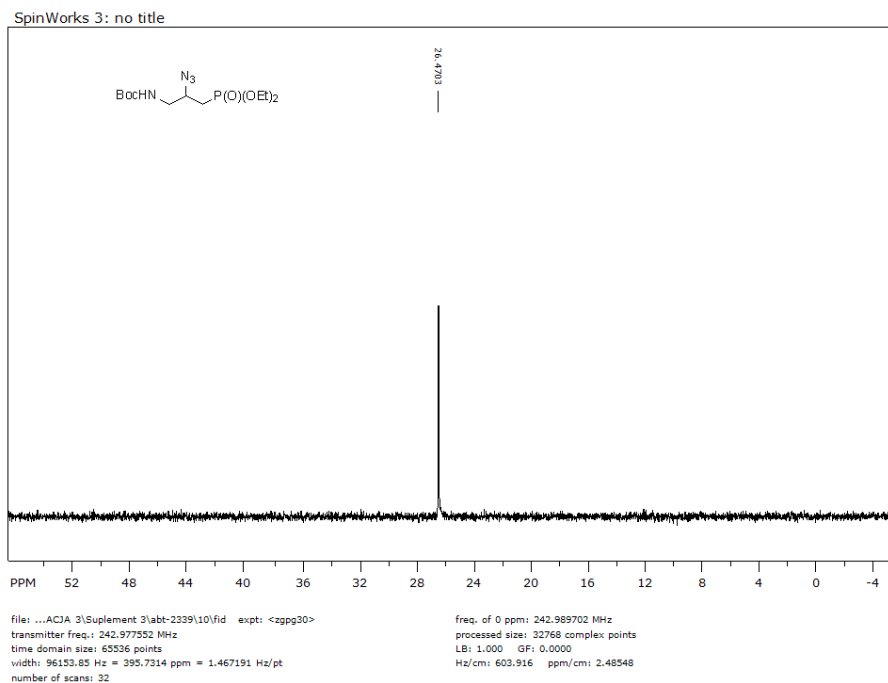


Figure S49. ^1H NMR Spectrum for (*E*)-**39** in CDCl_3

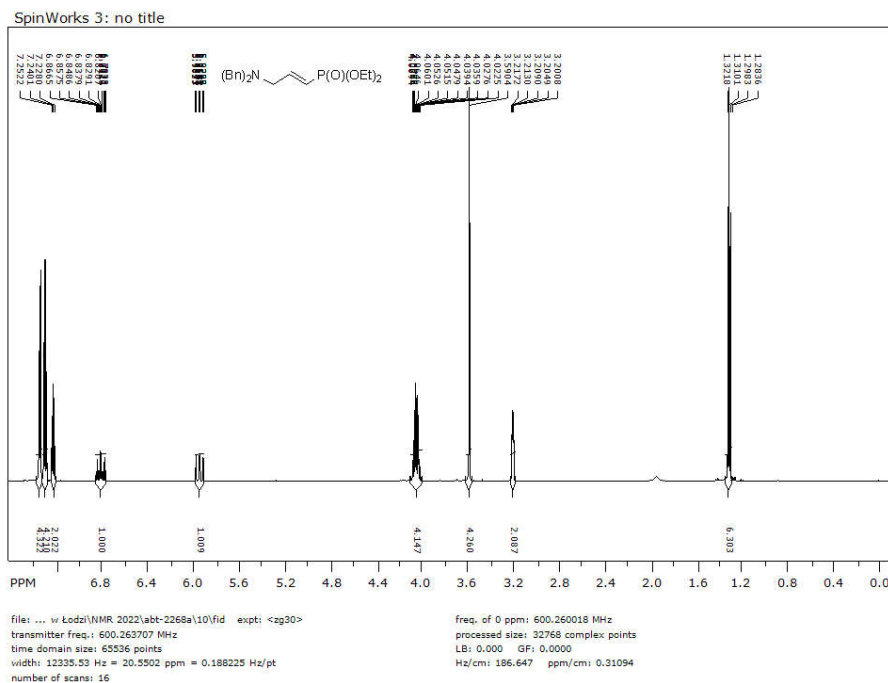


Figure S50. ^{13}C NMR Spectrum for (*E*)-**39** in CDCl_3

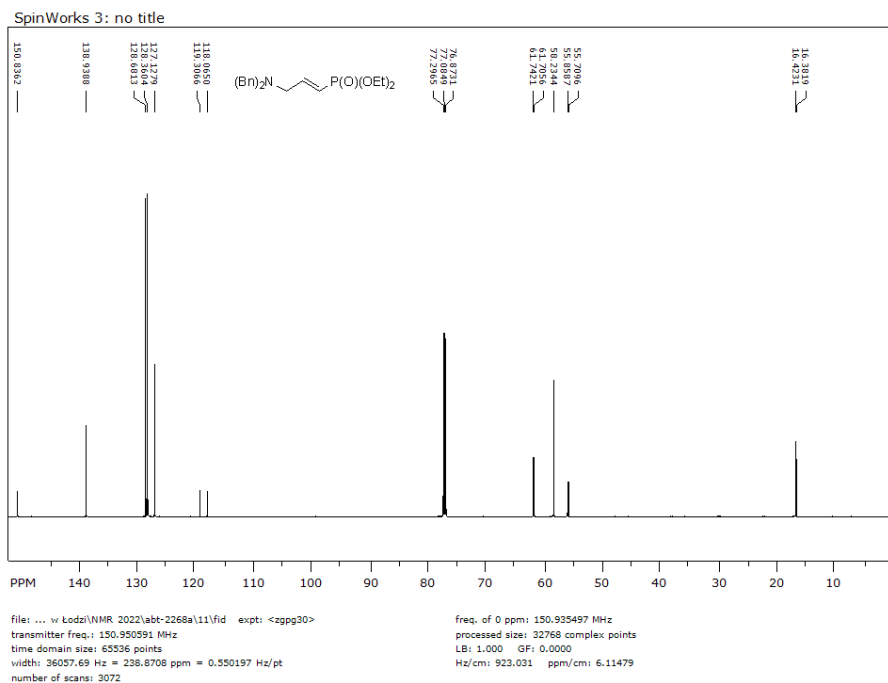


Figure S51. ^{31}P NMR Spectrum for (*E*)-**39** in CDCl_3

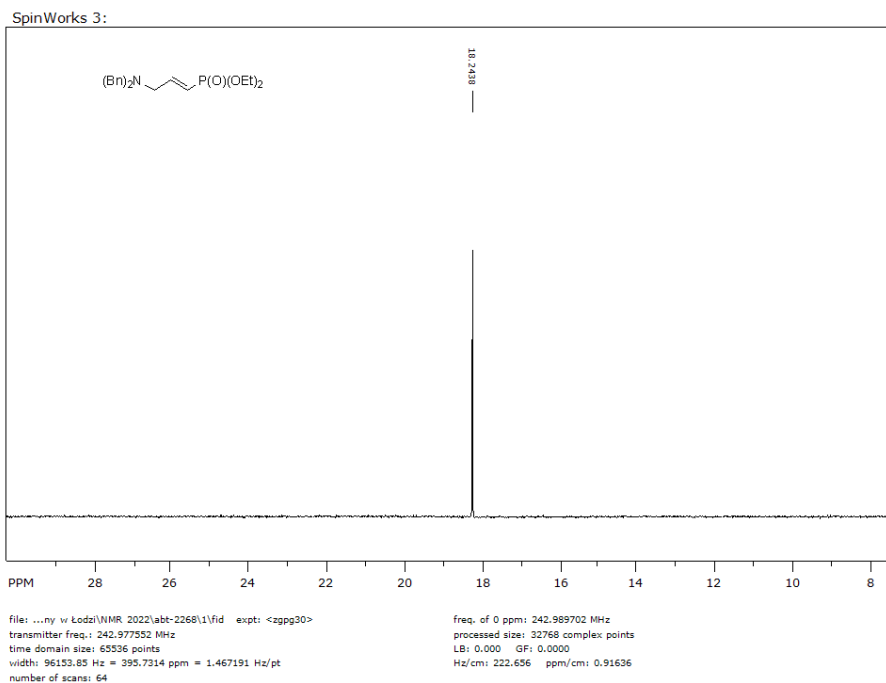


Figure S52. ^{31}P NMR Spectrum for crude mixture after reaction of racemic **30** with (*R*)-1-phenylethylamine in CDCl_3

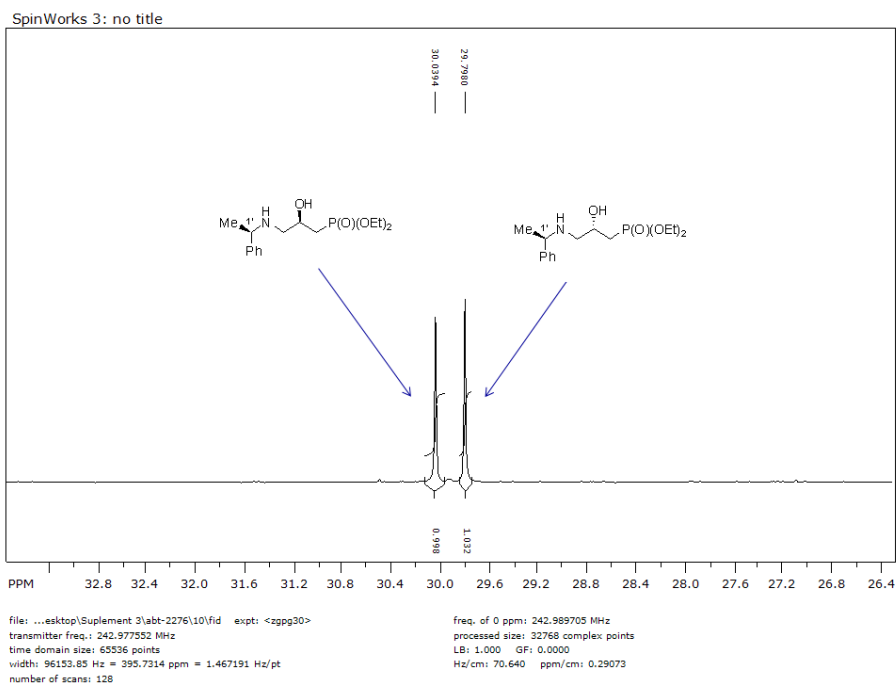


Figure S53. ^{31}P NMR Spectrum for crude mixture after reaction of (*S*)-**30** with (*R*)-1-phenylethylamine in CDCl_3

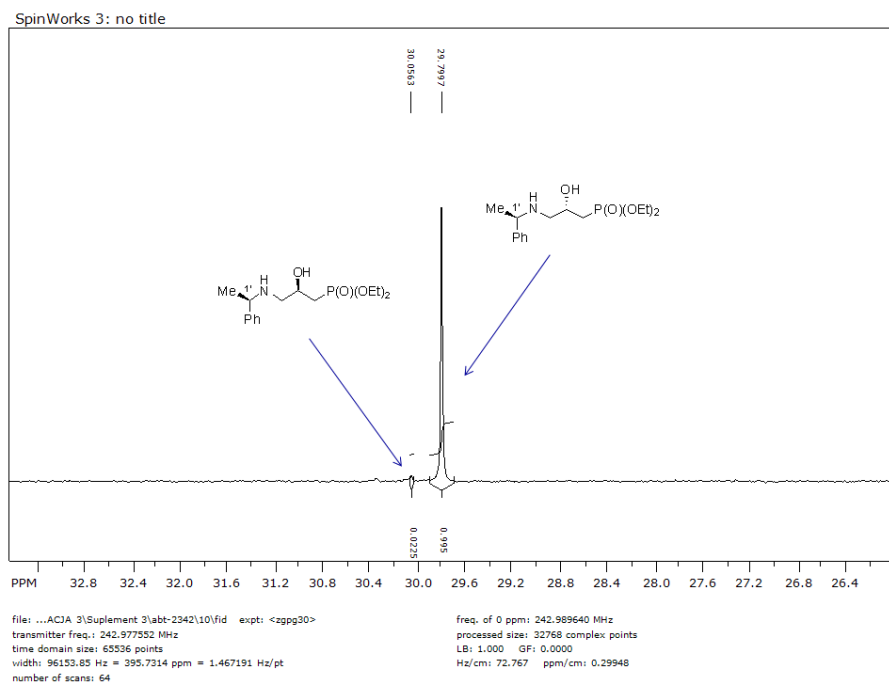


Figure S54. ^{31}P NMR Spectrum for crude mixture after reaction of (*R*)-**30** with (*R*)-1-phenylethylamine in CDCl_3

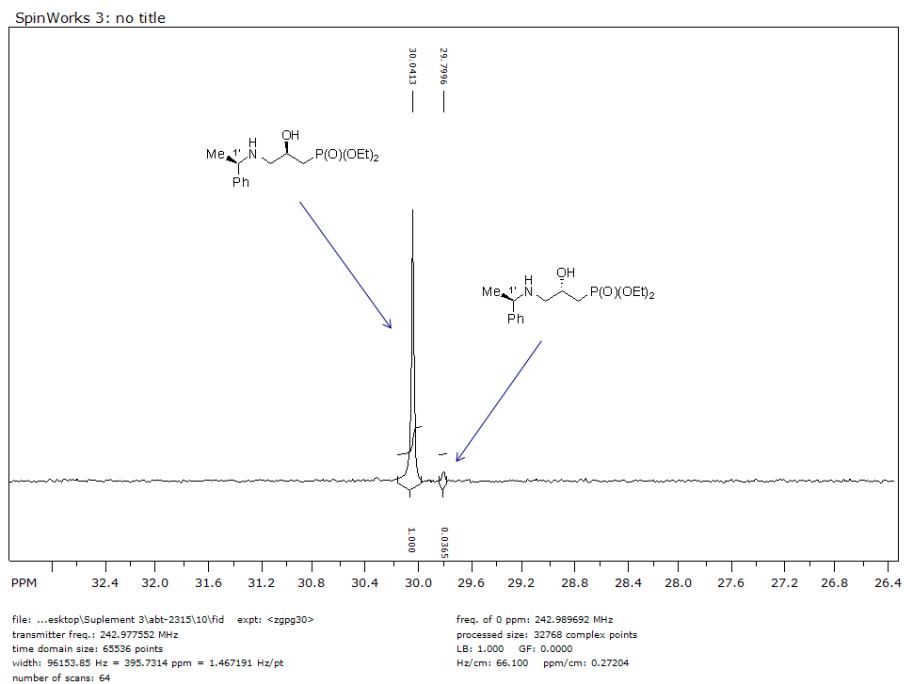


Figure S55. ^{31}P NMR Spectrum for mixture of crude (S)-**31** with 4 equiv. of quinine in CDCl_3

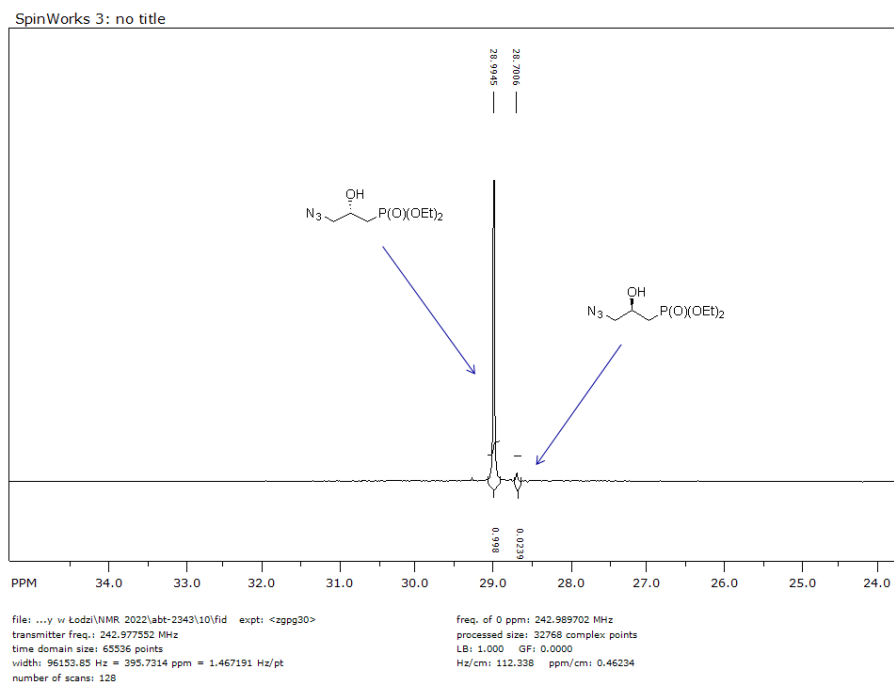


Figure S56. ^{31}P NMR Spectrum for mixture of crude (R)-**31** with 4 equiv. of quinine in CDCl_3

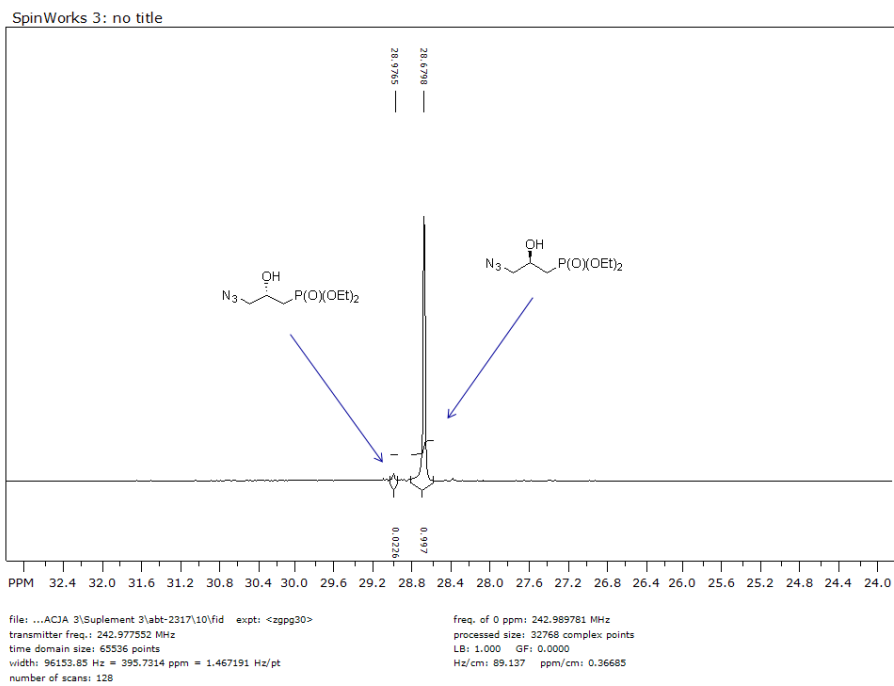


Figure S57. Analytical chromatogram for racemic **27**

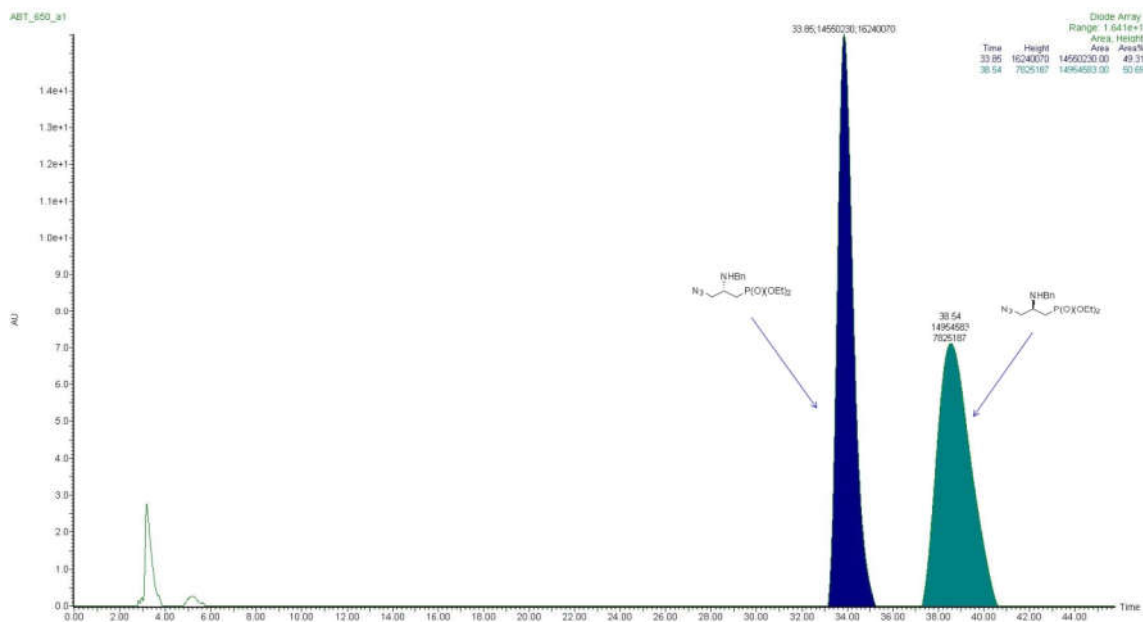


Figure S58. Analytical chromatogram for (*R*)-**27**

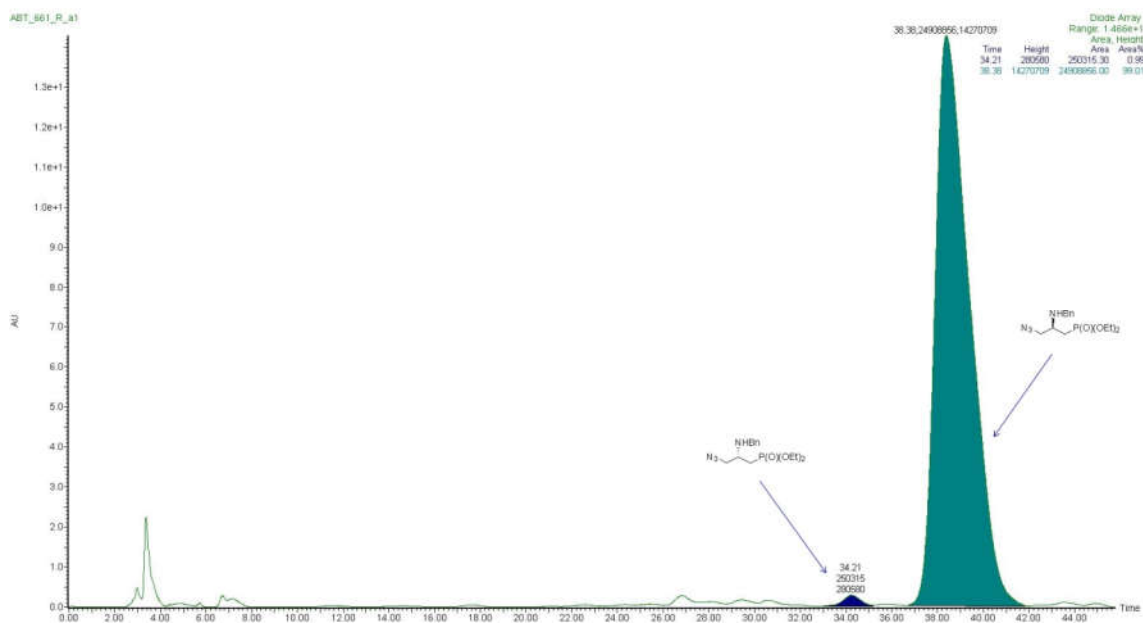


Figure S59. Analytical chromatogram for (S)-27

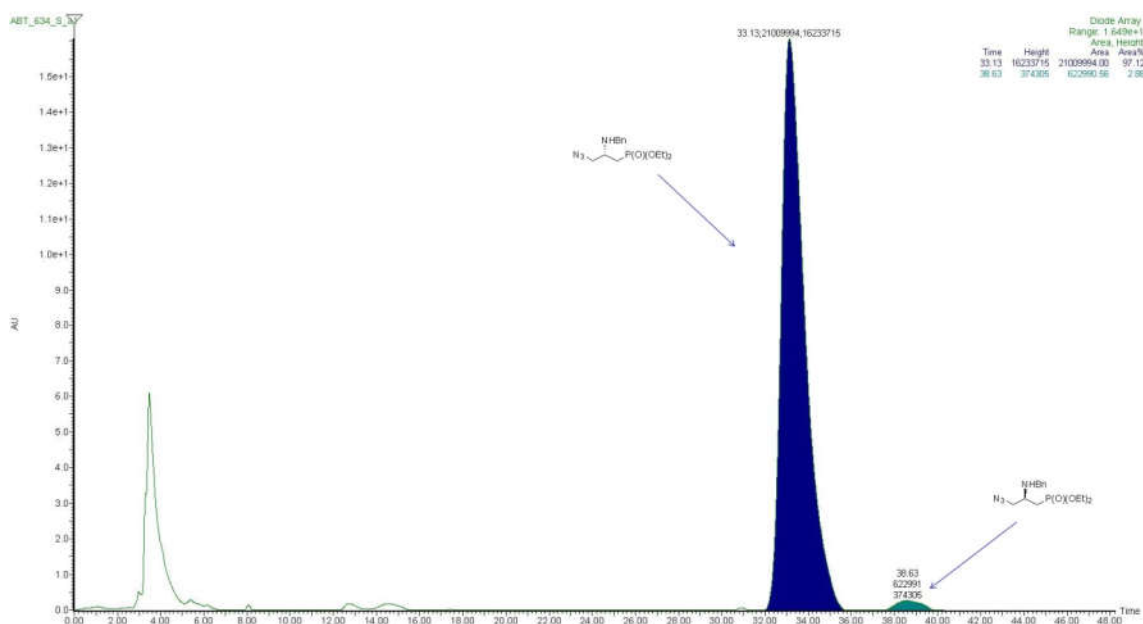


Figure S60. Analytical chromatogram for racemic **28**

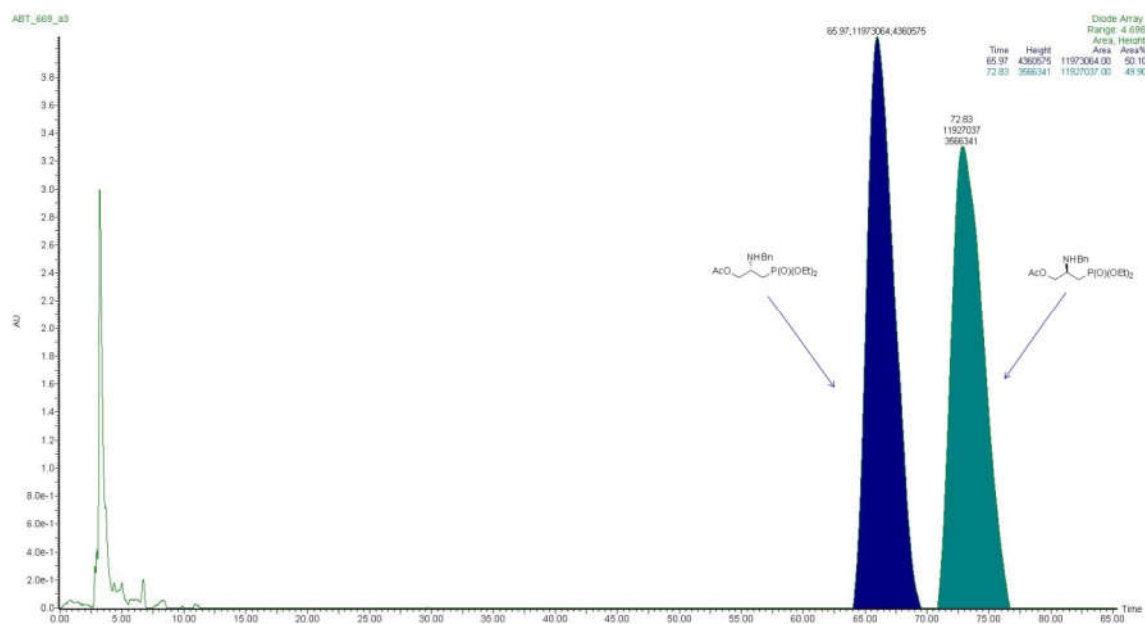


Figure S61. Analytical chromatogram for (*R*)-**28**

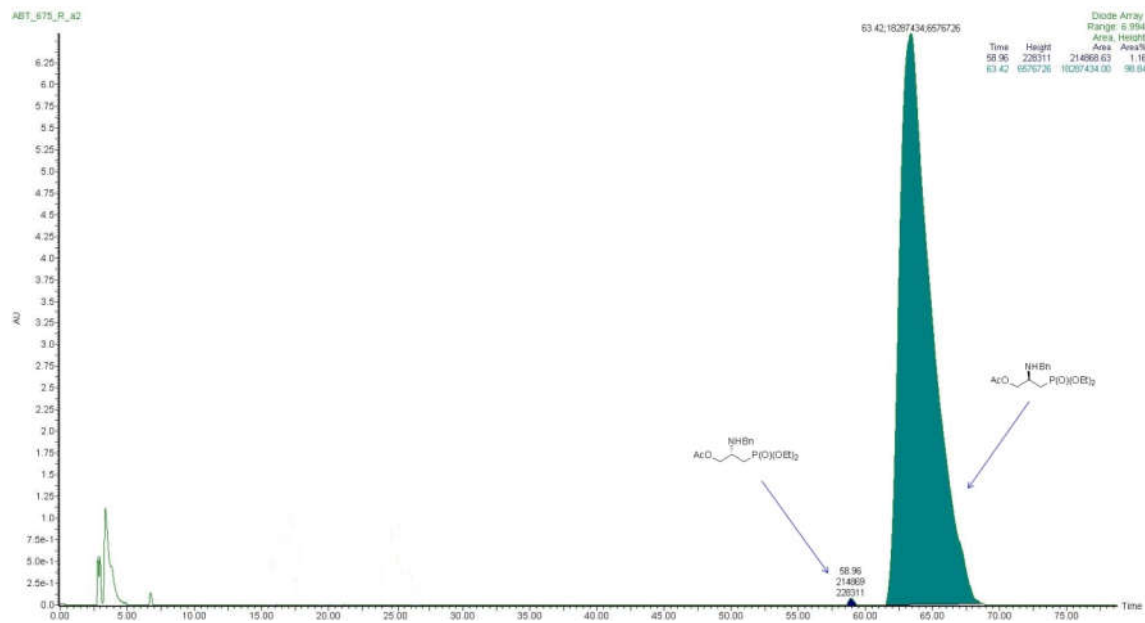


Figure S62. Analytical chromatogram for (S)-28

