Supporting Information

# *Design, synthesis and cytotoxic evaluation of a library of oxadiazole-containing hybrids*

Cristián M. Camacho;[a] Marianela G. Pizzio;[a] David L. Roces;[a] Dora B. Boggián;[a] Ernesto G. Mata;[a] * Yanina Bellizzi;[b] Elizabeth Barrionuevo;[b] Viviana C. Blank;[b] Leonor P. Roguin[b]

[a]Instituto de Química Rosario (CONICET – UNR), Facultad de Ciencias Bioquímicas y Farmacéuticas, UNR, Suipacha 531, 2000 Rosario.

[b]Instituto de Química y Fisicoquímica Biológicas (UBA – CONICET), Facultad de Farmacia y Bioquímica, UBA, Junín 956, C1113AAD Buenos Aires.

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* To whom correspondence should be addressed. E-mail: mata@iquir-conicet.gov.ar Tel: +54 341 4370477.

# 1. NMR spectra

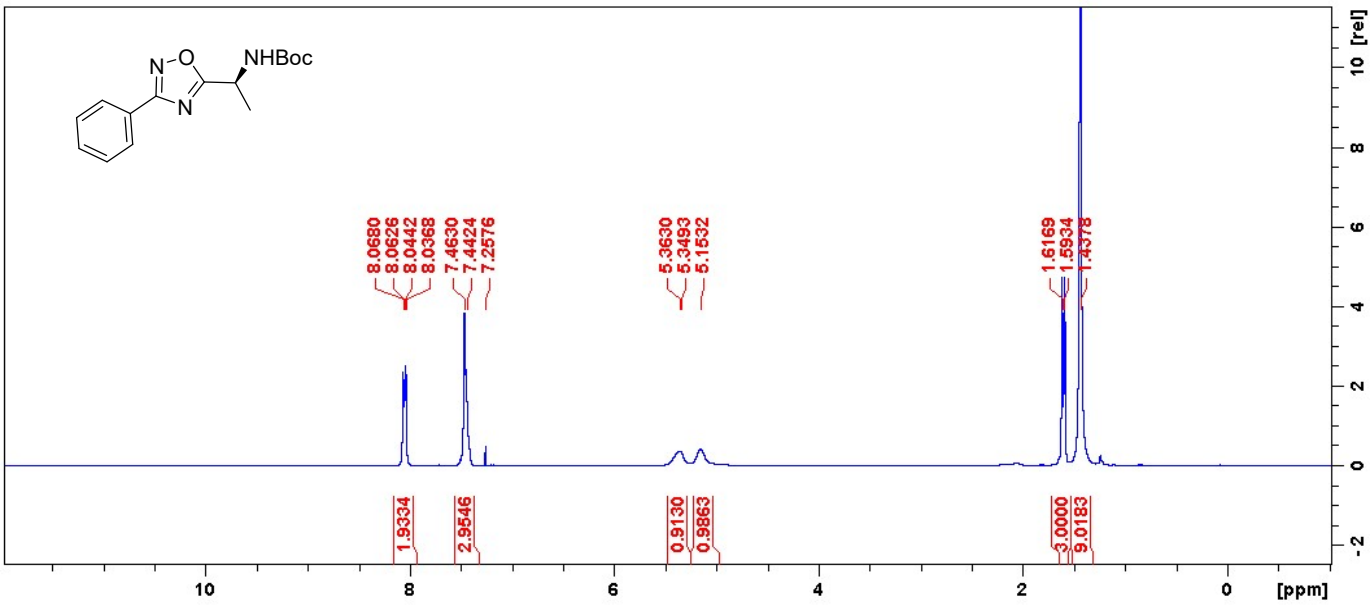


**Figure S 1**. $^{1}$H NMR spectra of compound **13aa** in $CDCl_3$.

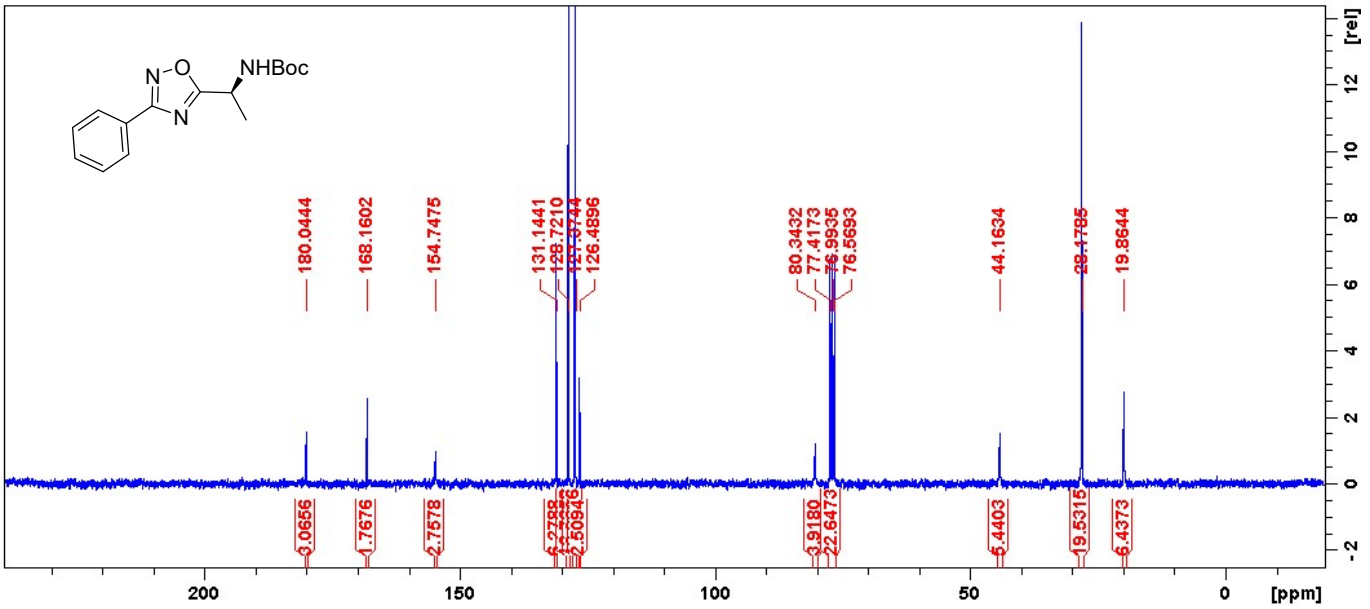


**Figure S 1**. $^{13}$C NMR spectra of compound **13aa** in $CDCl_3$.

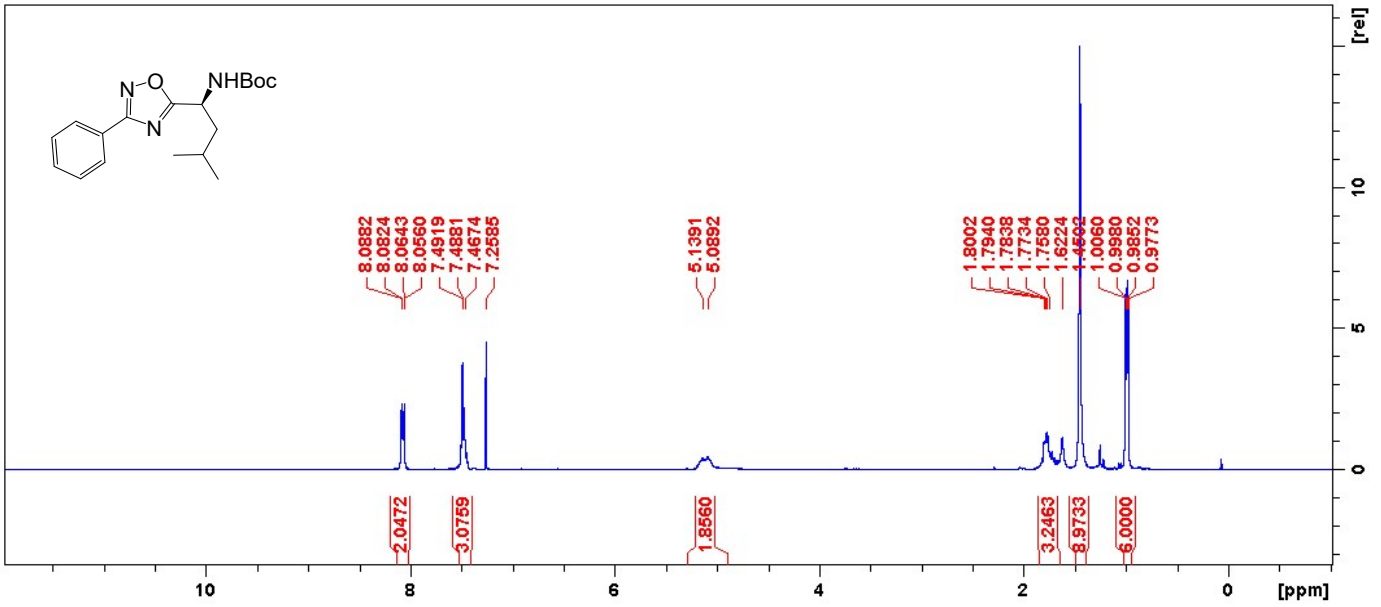


**Figure S 2**. $^{1}H$ NMR spectra of compound **13ba** in $CDCl_3$.

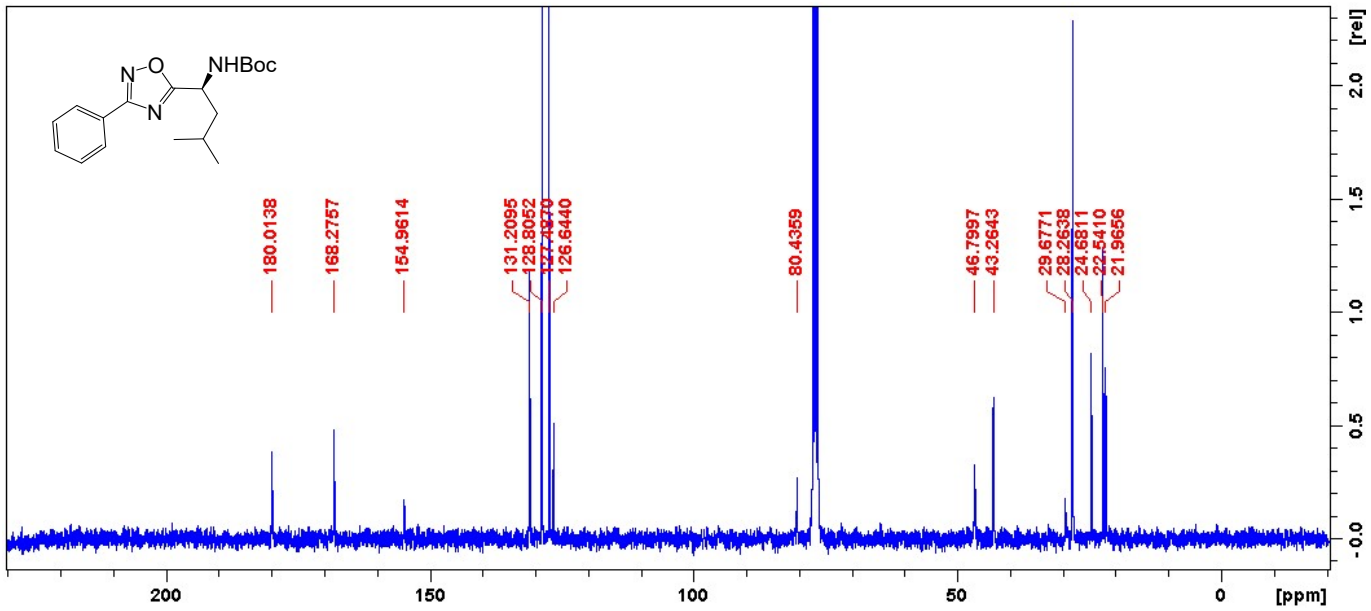


**Figure S 2**. $^{13}C$ NMR spectra of compound **13ba** in $CDCl_3$.

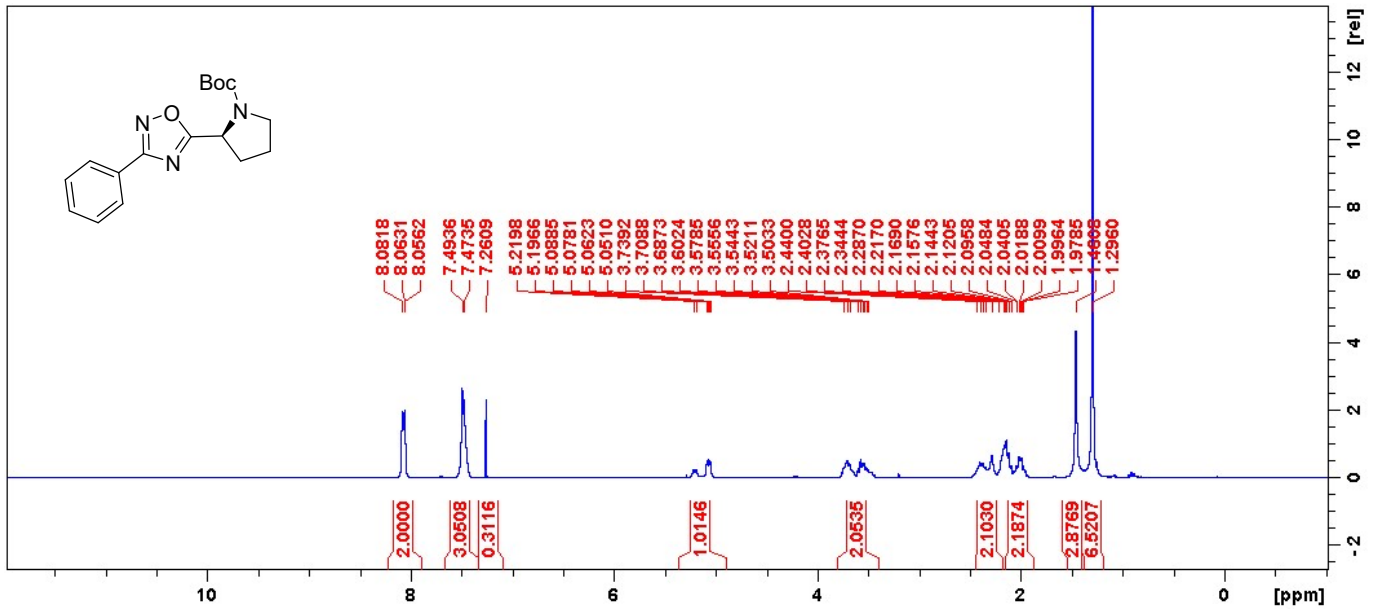


**Figure S 3**. $^{1}$H NMR spectra of compound **13ca** in $CDCl_3$.

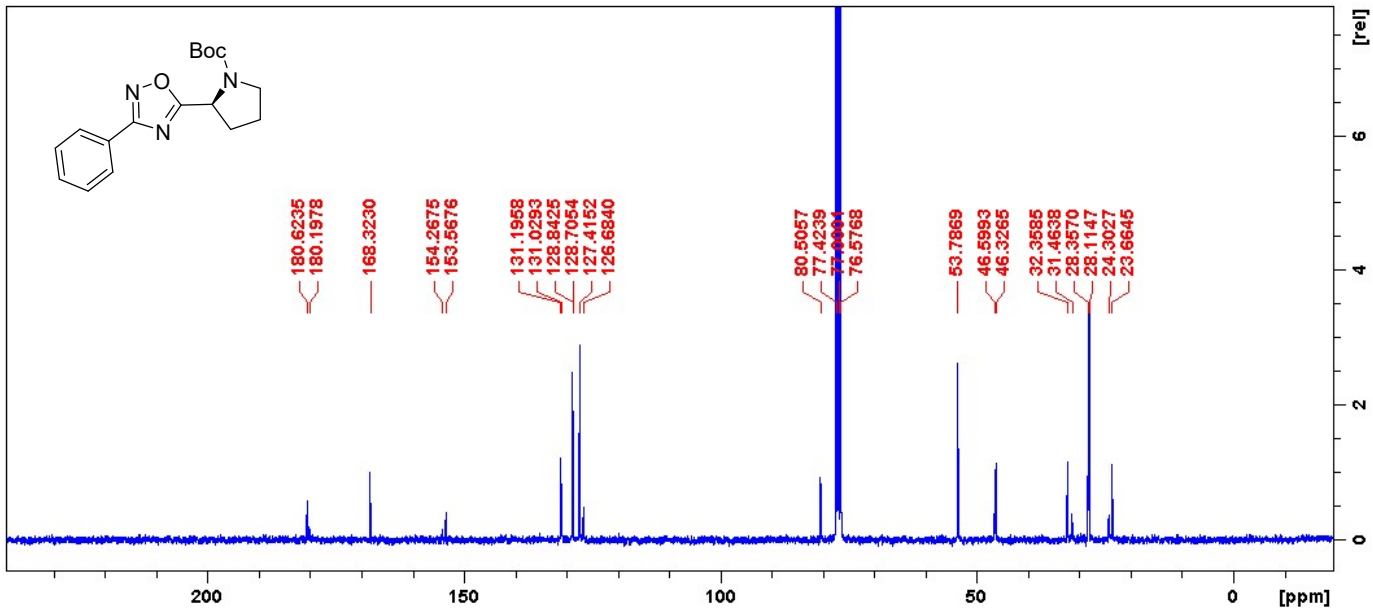


**Figure S 3**. $^{13}$C NMR spectra of compound **13ca** in $CDCl_3$.

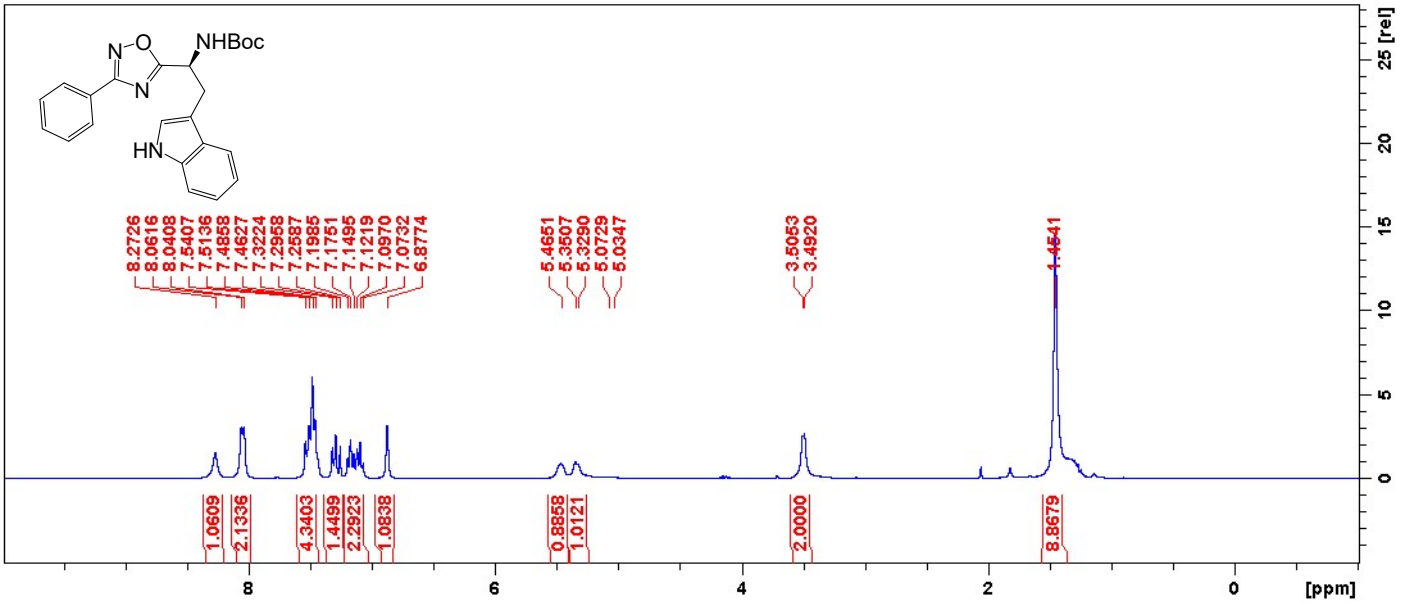


**Figure S 4**. $^{1}$H NMR spectra of compound **13da** in $CDCl_3$.

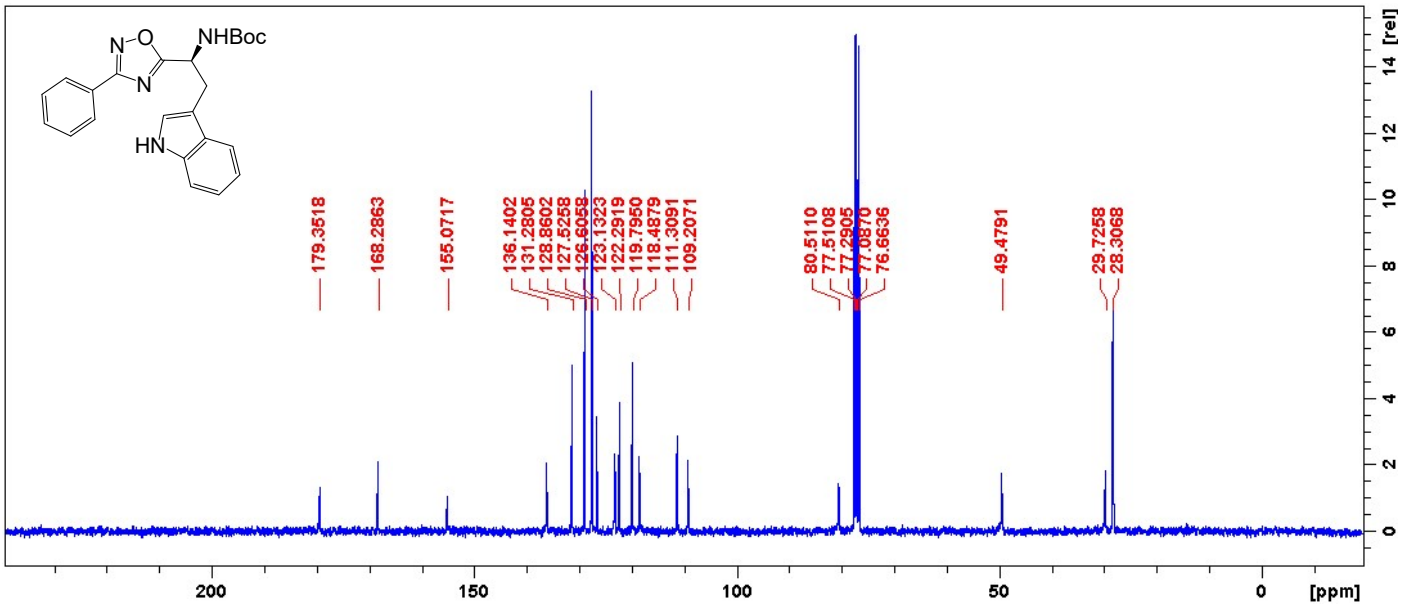


**Figure S 4**. $^{13}$C NMR spectra of compound **13da** in $CDCl_3$.

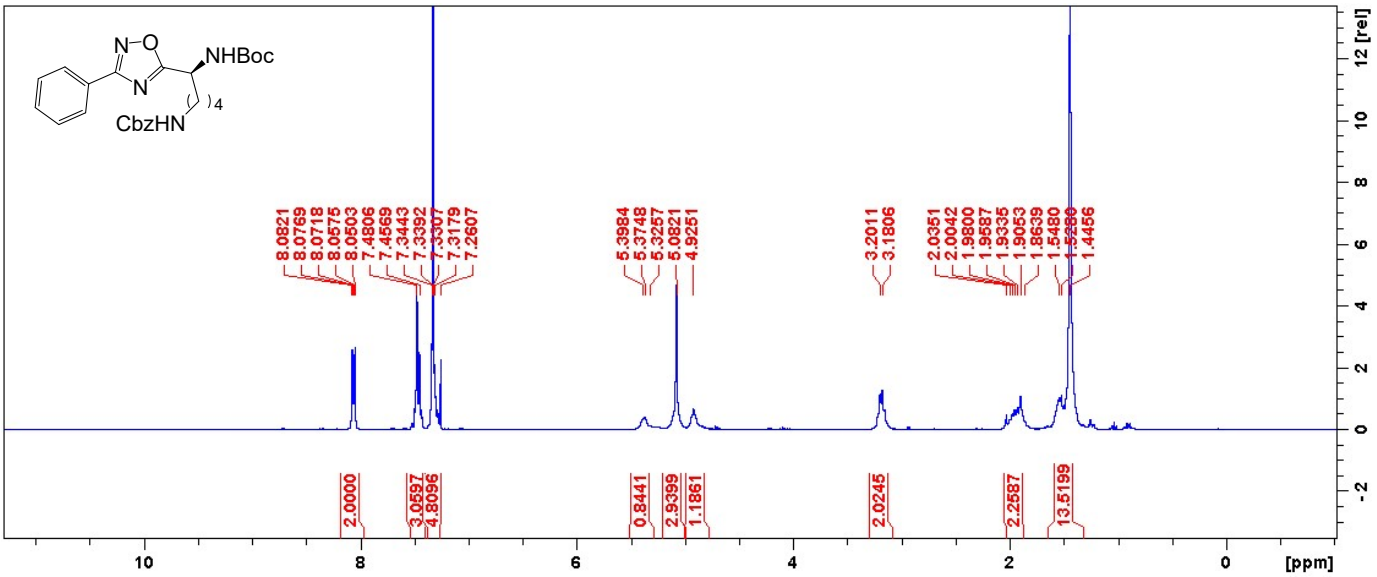


**Figure S 5**. $^{1}$H NMR spectra of compound **13ea** in $CDCl_3$.

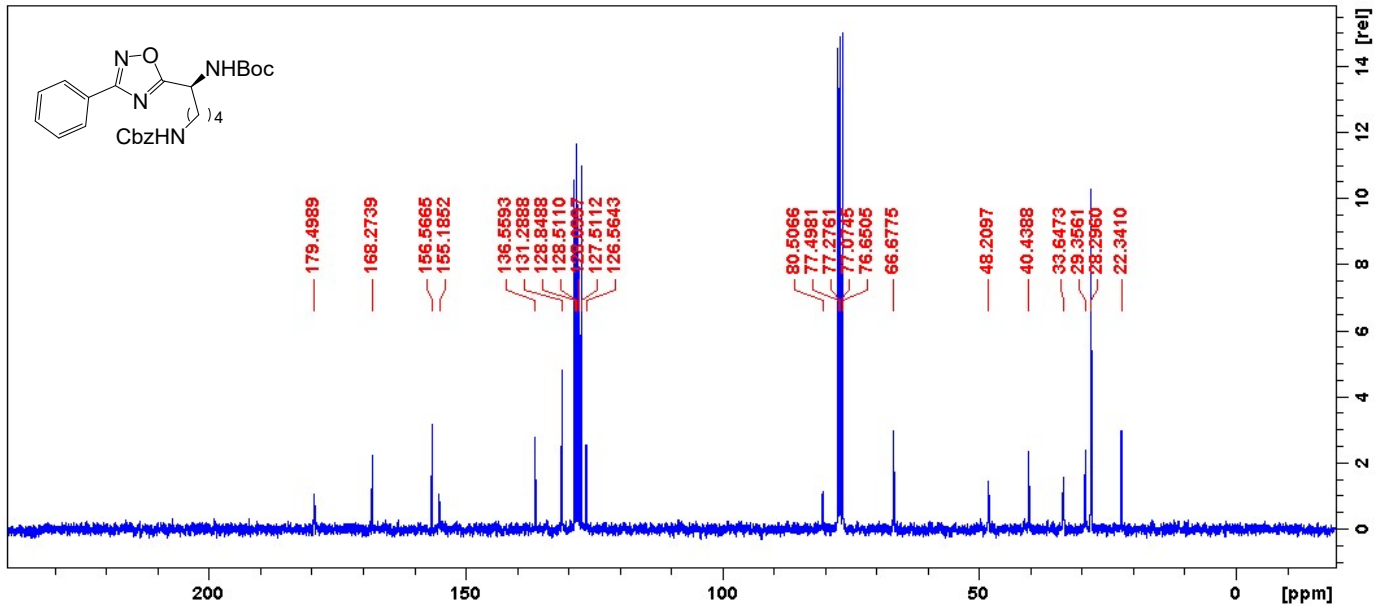


**Figure S 5**. $^{13}$C NMR spectra of compound **13ea** in $CDCl_3$.

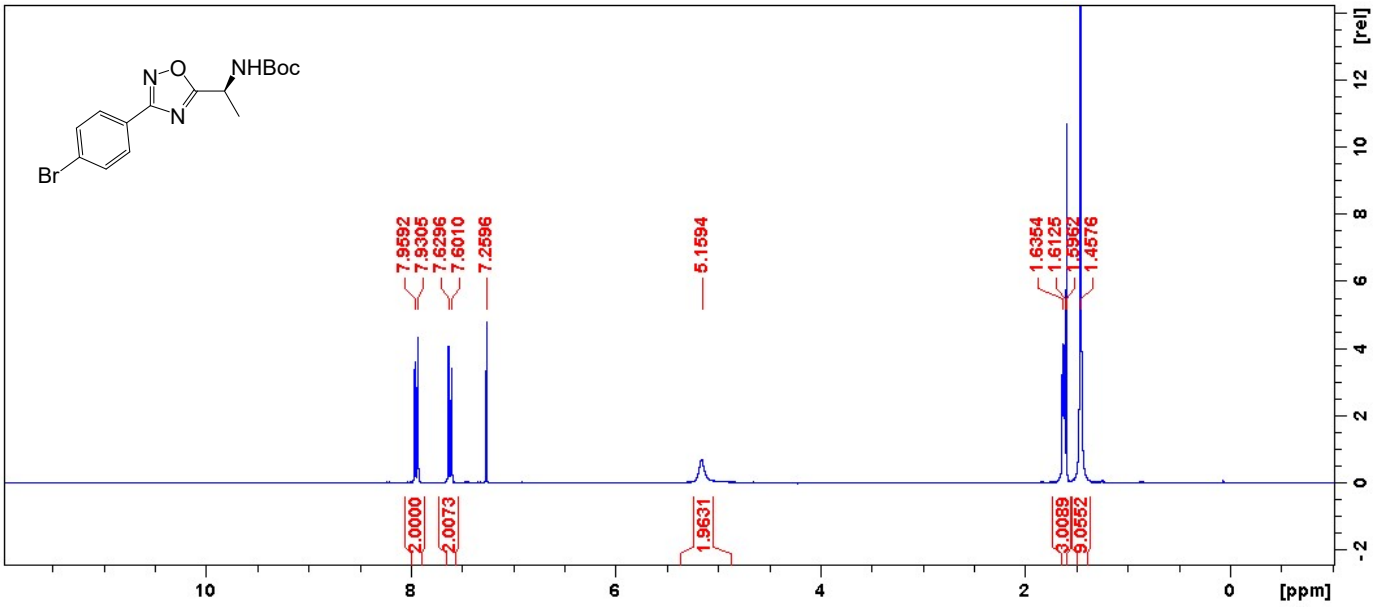


**Figure S 6**. $^{1}H$ NMR spectra of compound **13ab** in $CDCl_3$.

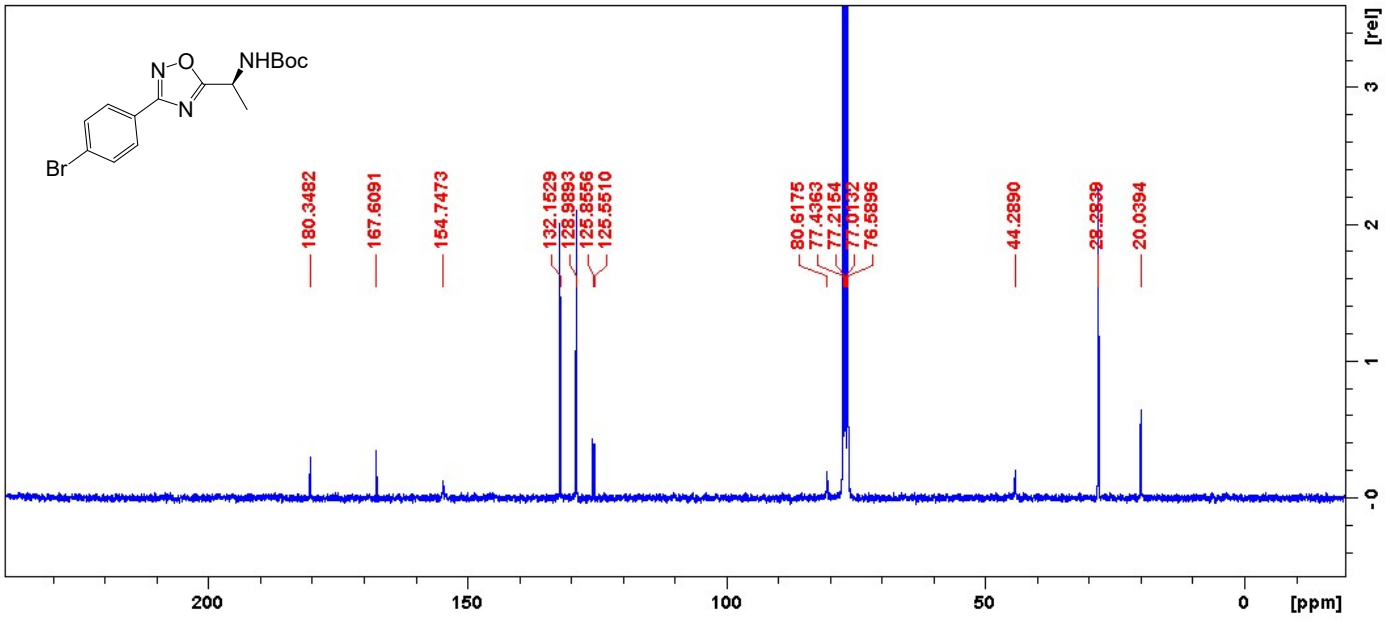


**Figure S 6**. $^{13}C$ NMR spectra of compound **13ab** in $CDCl_3$.

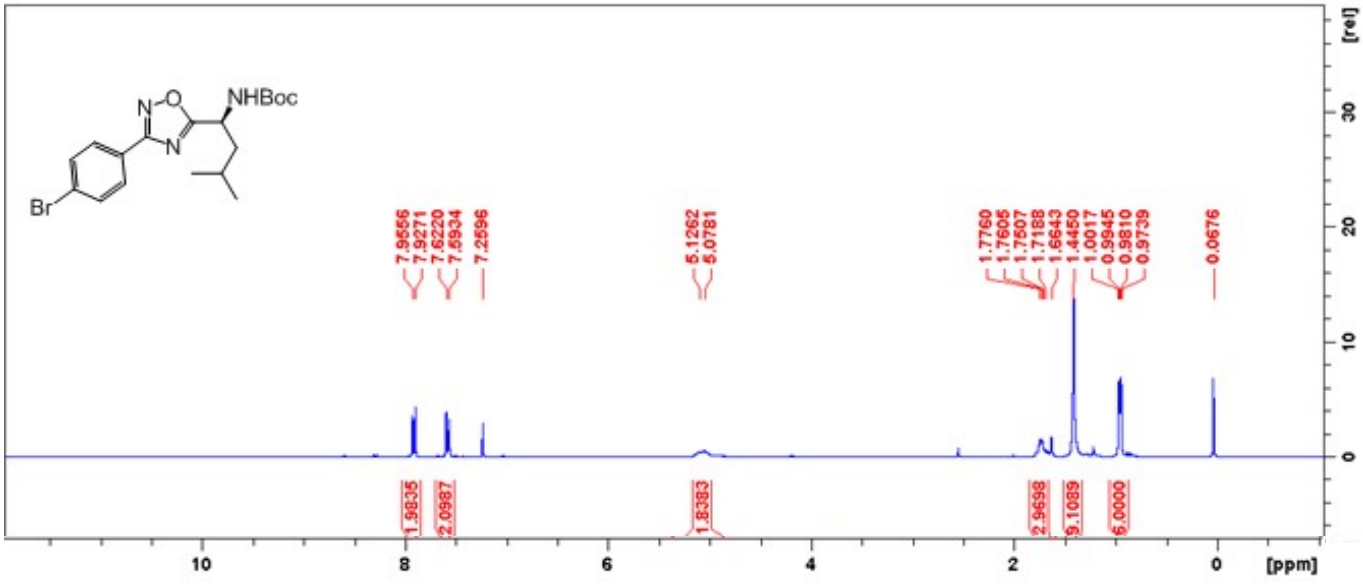


**Figure S 7**. $^{1}H$ NMR spectra of compound **13bb** in $CDCl_3$.

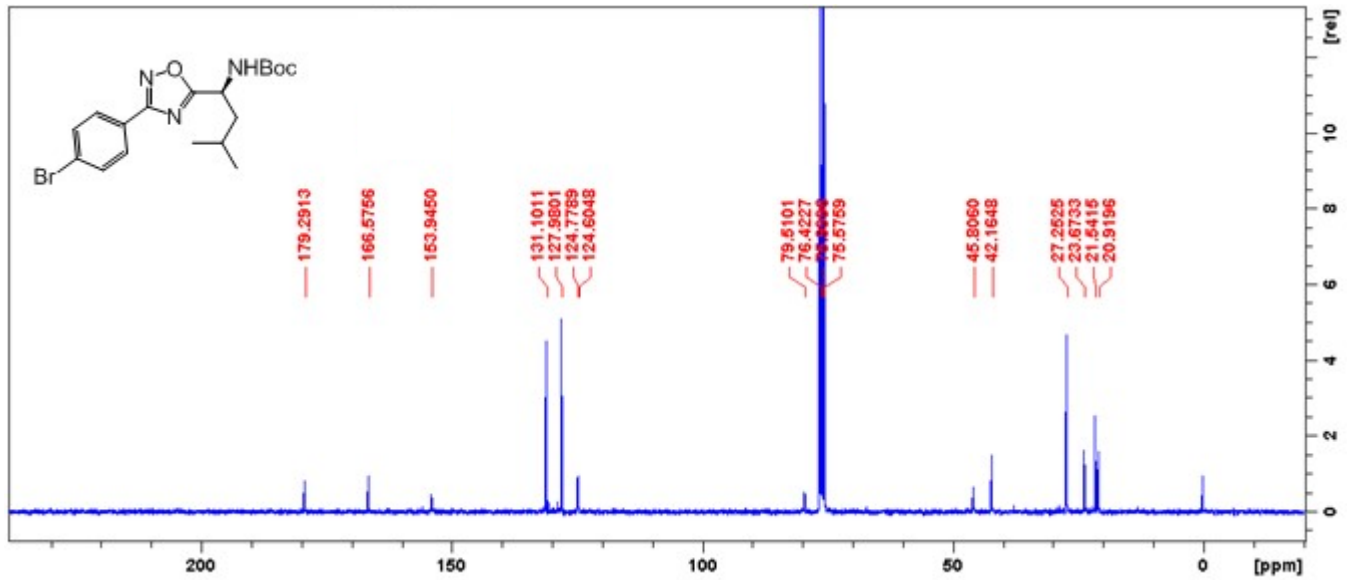


**Figure S 7**. $^{13}C$ NMR spectra of compound **13bb** in $CDCl_3$.

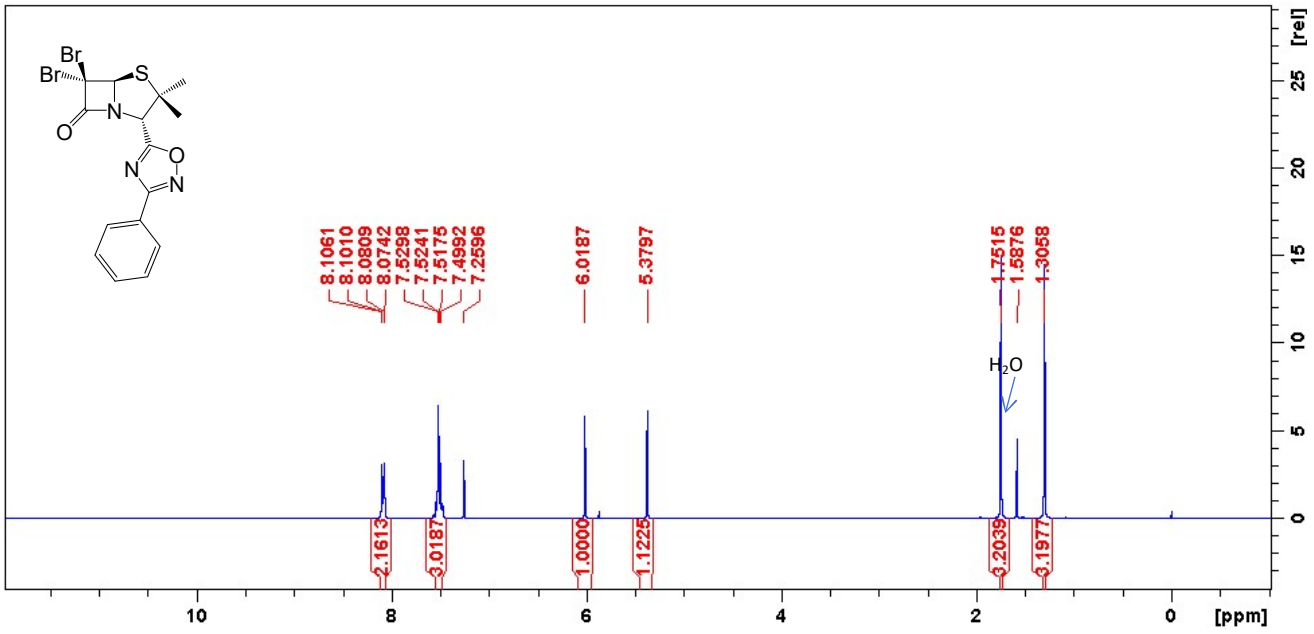


**Figure S 8**. $^{1}$H NMR spectra of compound **16aa** in $CDCl_3$.

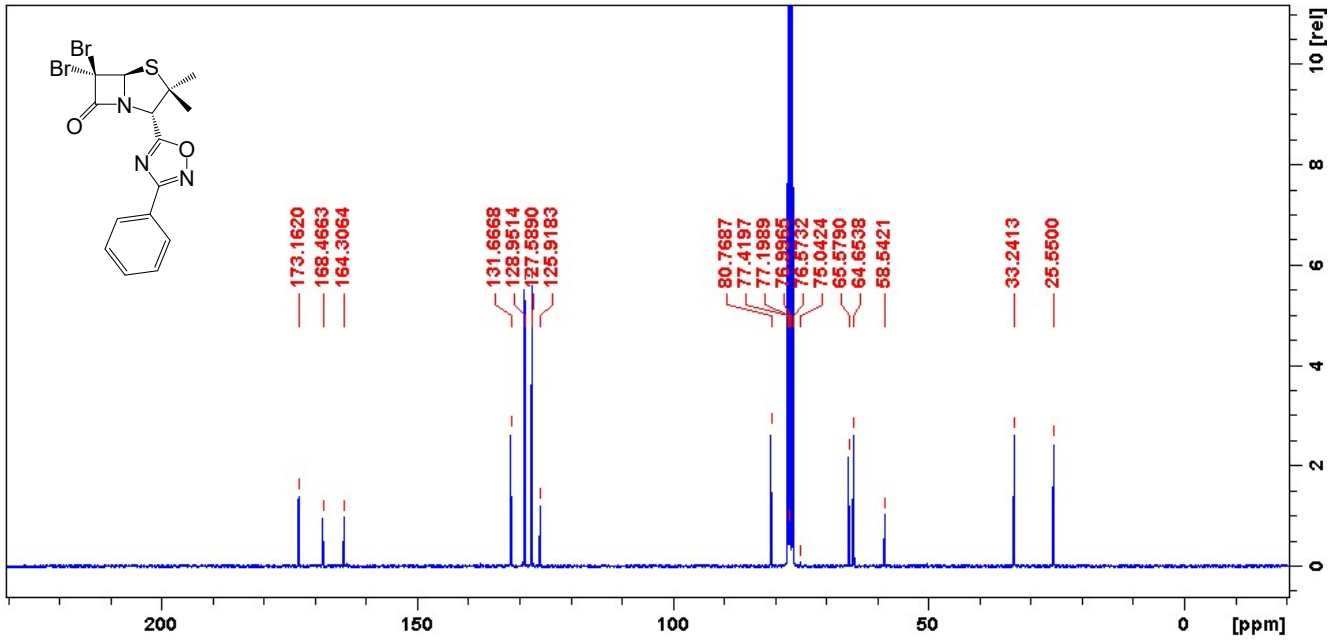


**Figure S 8**. $^{13}$C NMR spectra of compound **16aa** in $CDCl_3$.

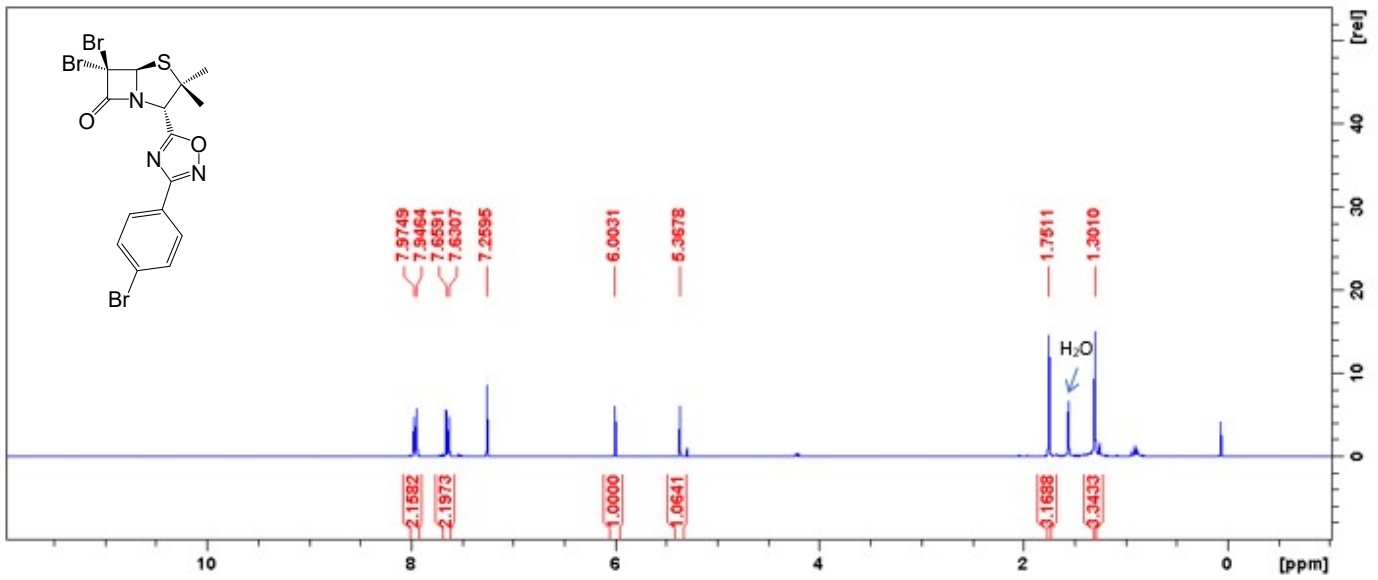


**Figure S 9**. $^{1}$H NMR spectra of compound **16ab** in $CDCl_3$.

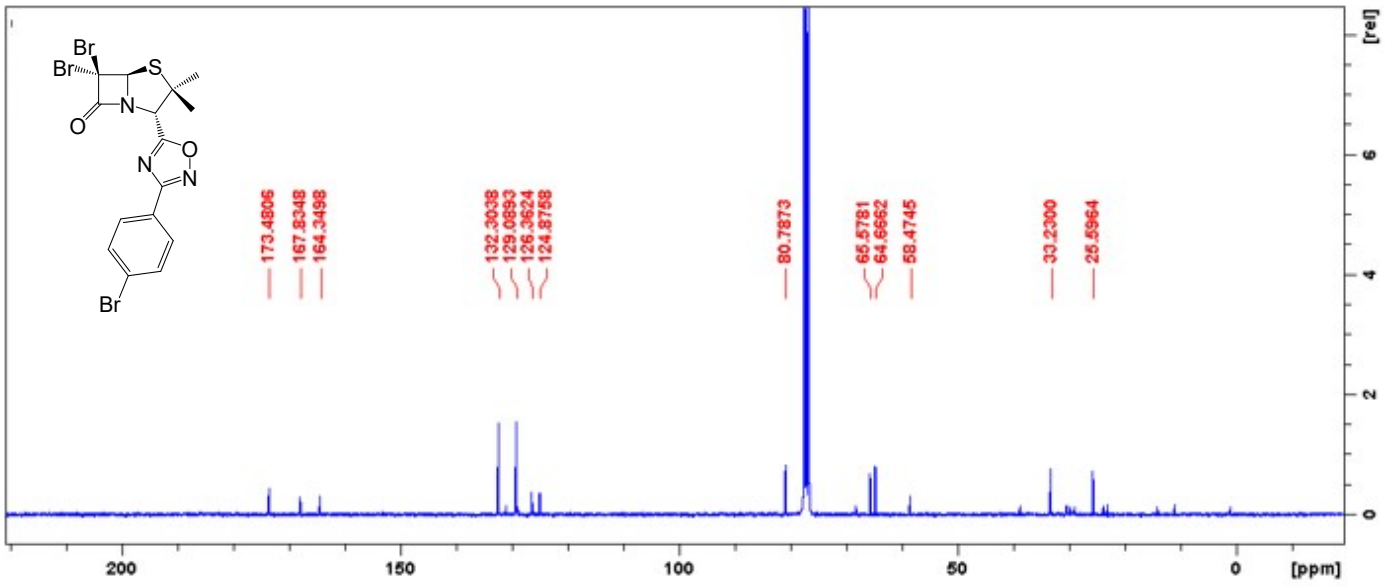


**Figure S 9**. $^{13}$C NMR spectra of compound **16ab** in $CDCl_3$.

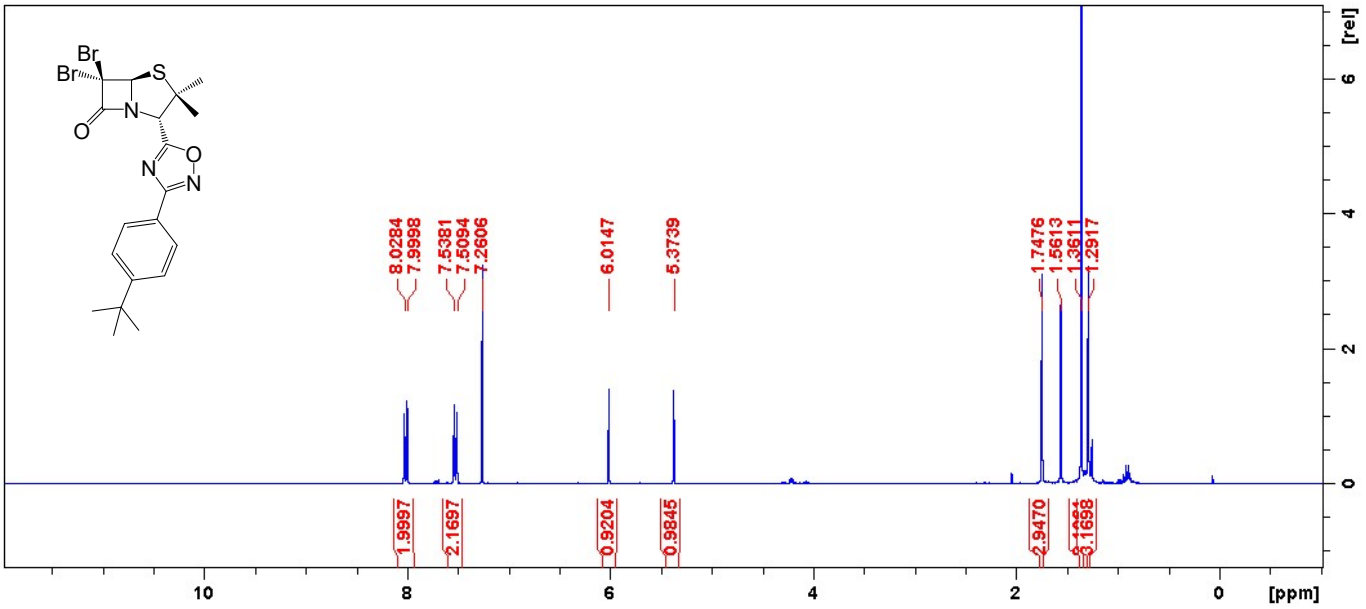


**Figure S 10**. $^{1}H$ NMR spectra of compound **16ac** in $CDCl_3$.

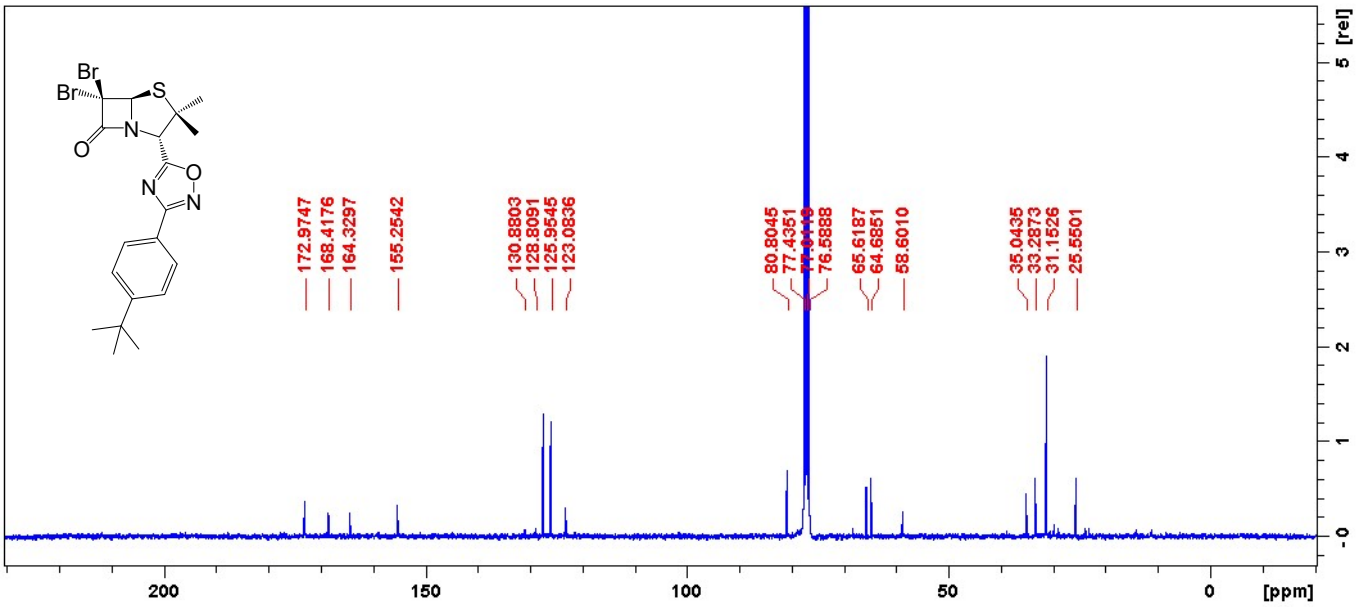


**Figure S 10**. $^{13}C$ NMR spectra of compound **16ac** in $CDCl_3$.

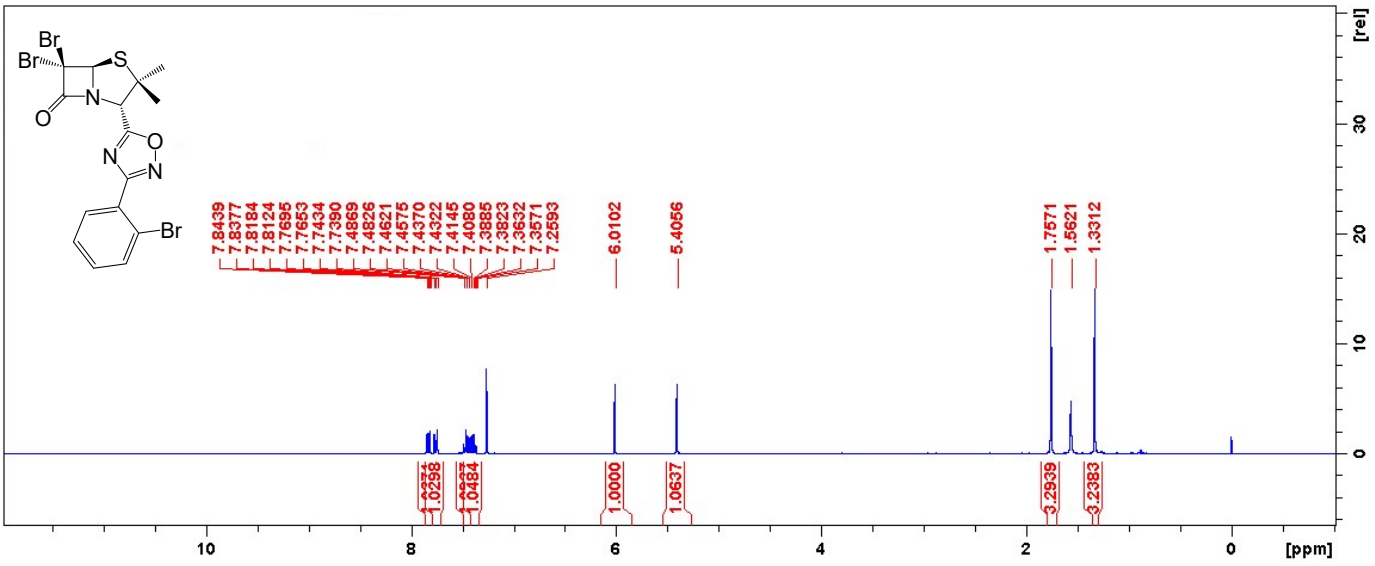


**Figure S 11**. $^{1}$H NMR spectra of compound **16ad** in $CDCl_3$.

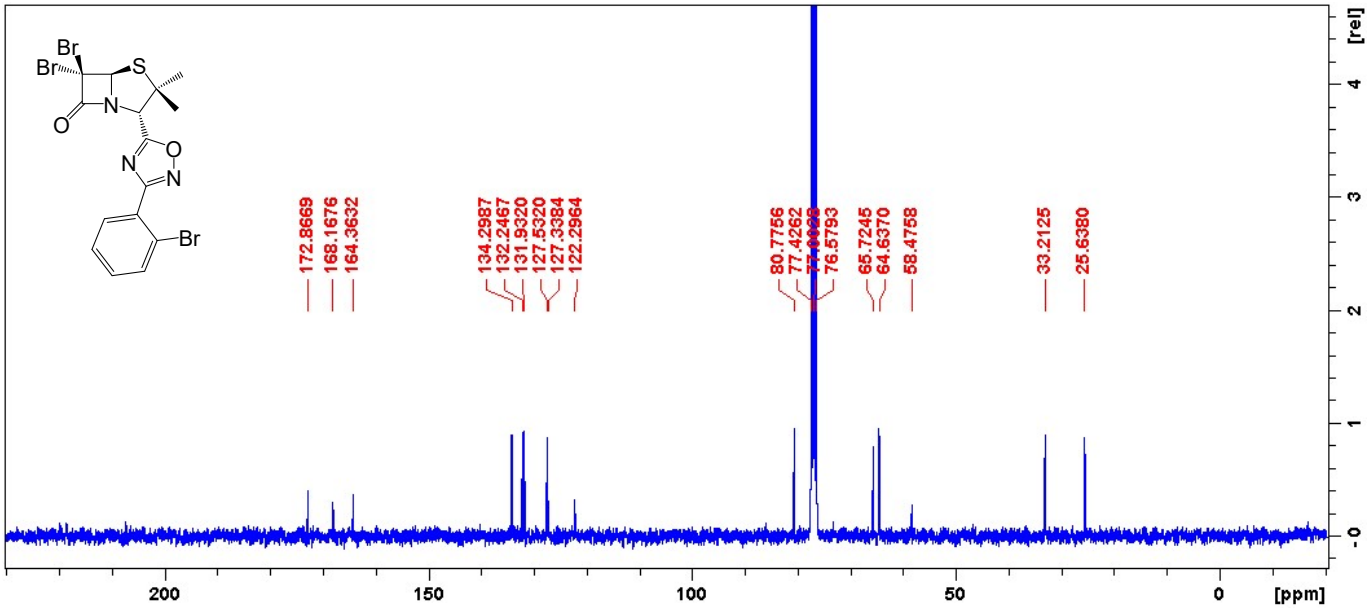


**Figure S 11**. $^{13}$C NMR spectra of compound **16ad** in $CDCl_3$.

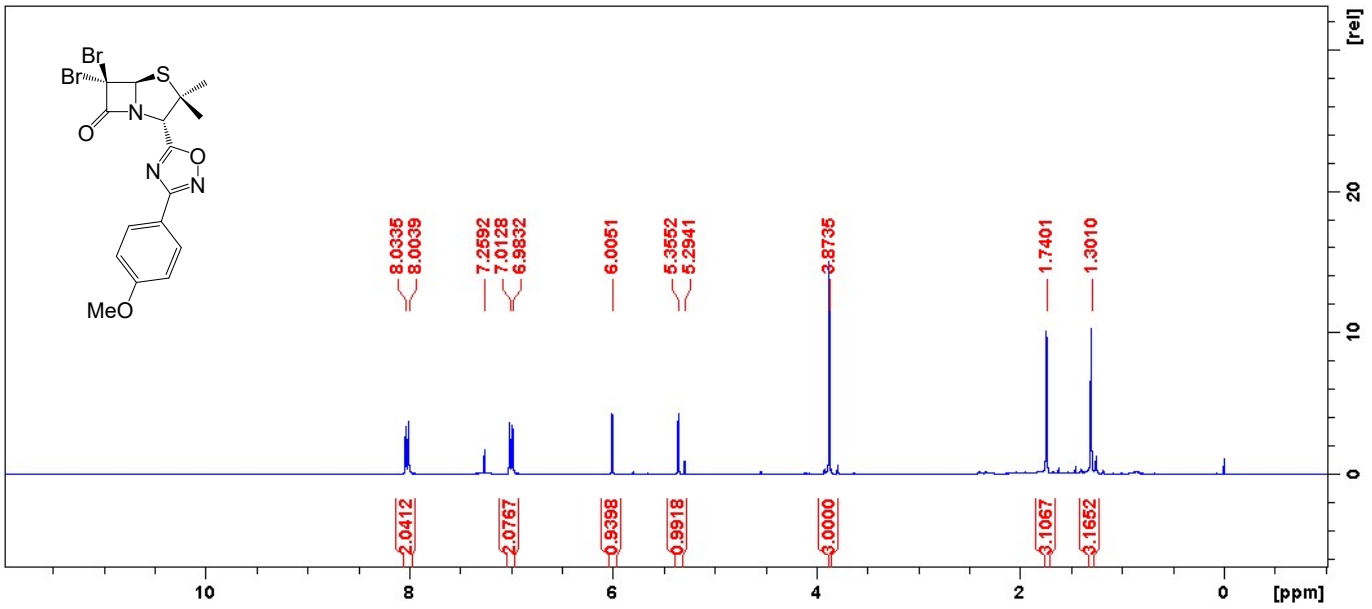


**Figure S 12**. $^{1}H$ NMR spectra of compound **16ae** in $CDCl_3$.

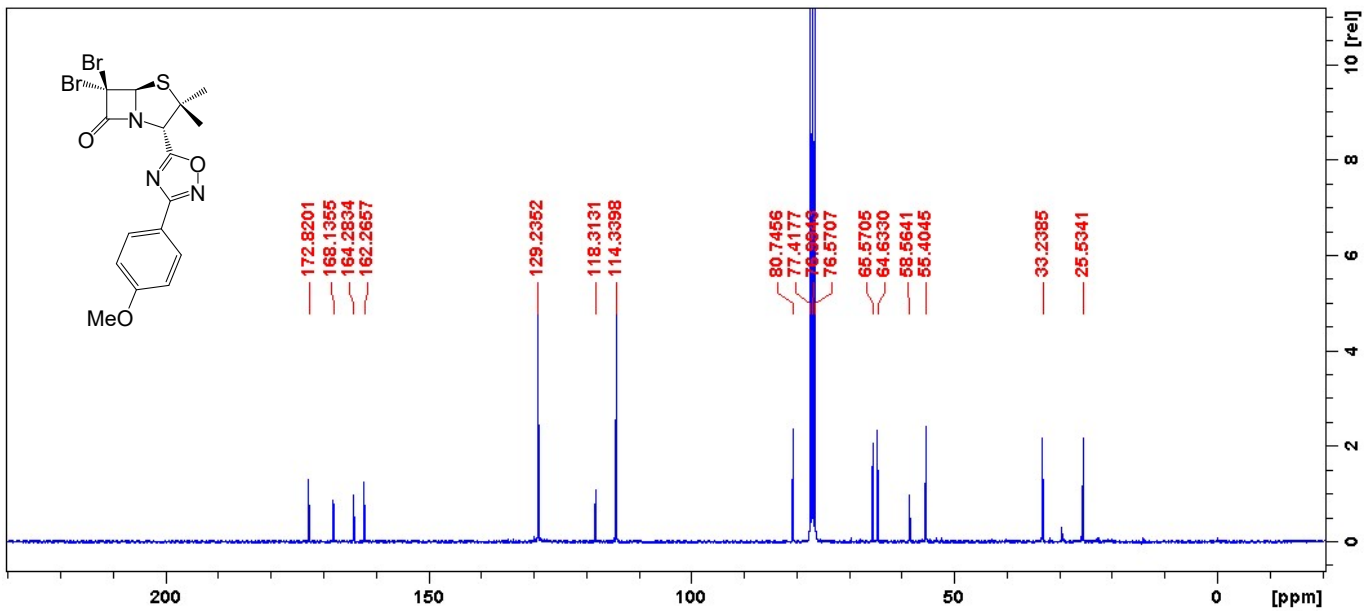


**Figure S 12**. $^{13}C$ NMR spectra of compound **16ae** in $CDCl_3$.

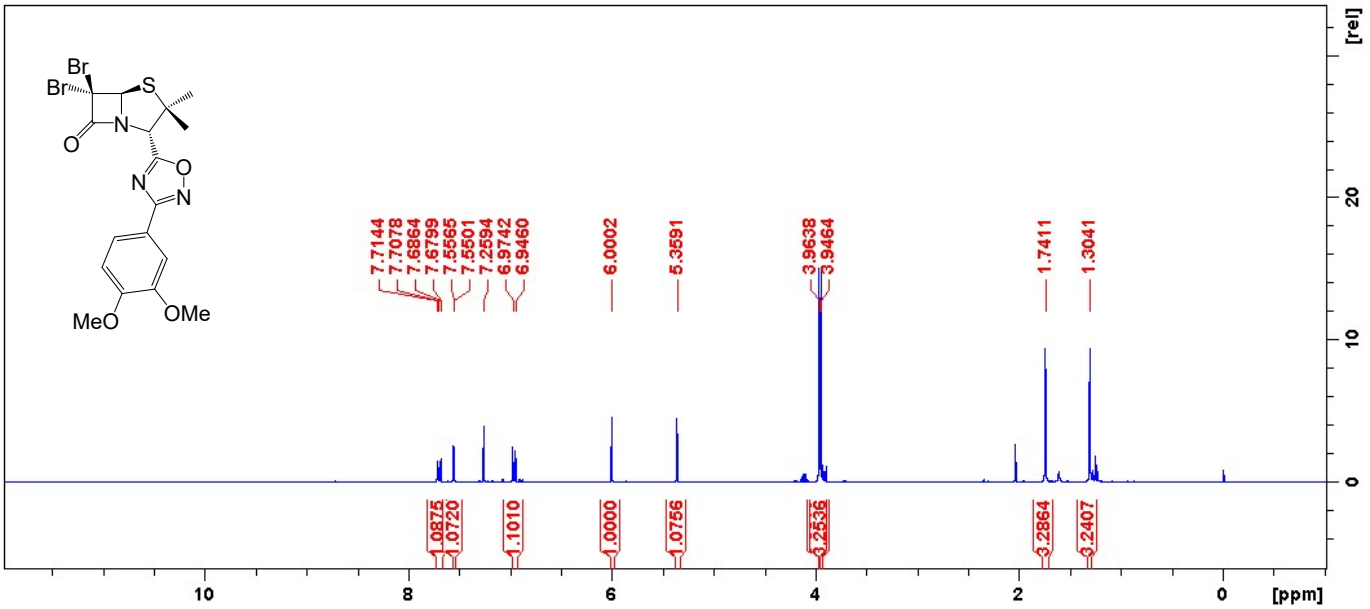


**Figure S 13**. $^{1}$H NMR spectra of compound **16af** in $CDCl_3$.

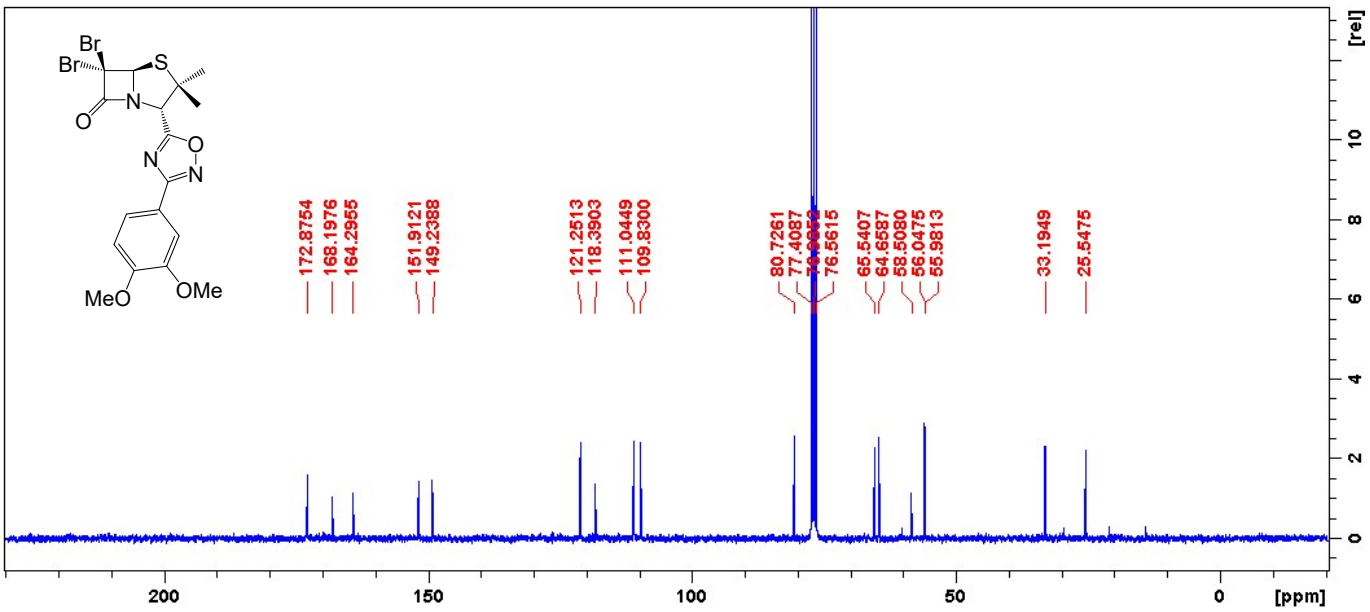


**Figure S 13**. $^{13}$C NMR spectra of compound **16af** in $CDCl_3$.

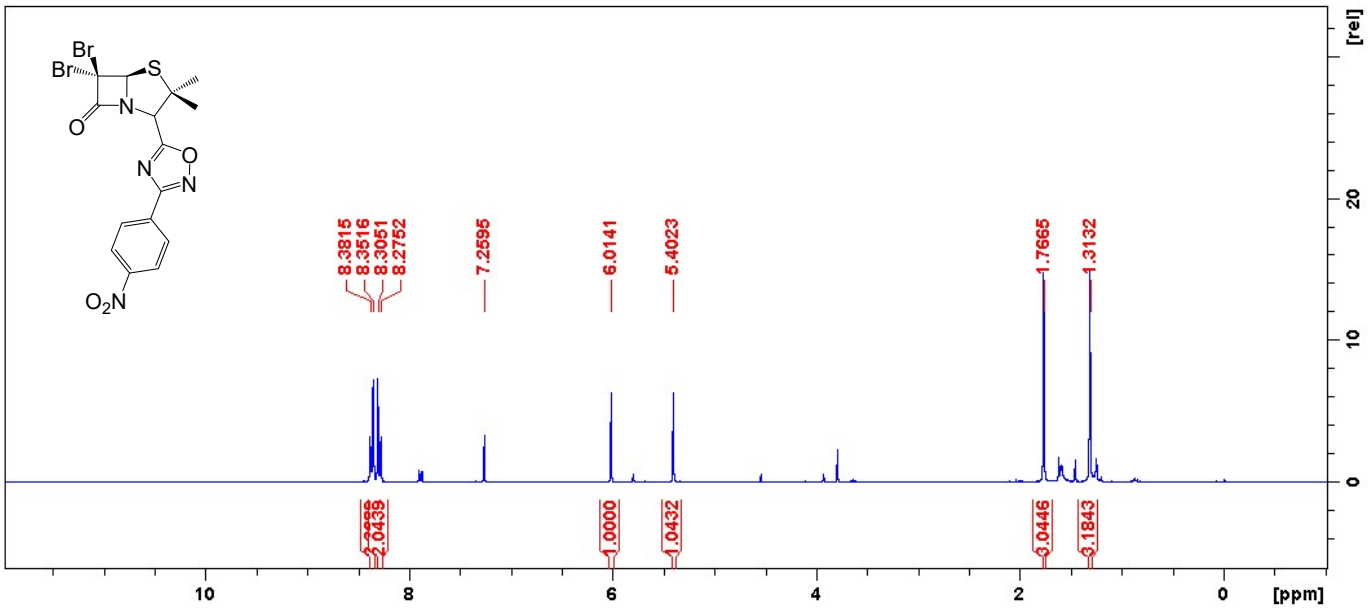


**Figure S 14**. $^{1}H$ NMR spectra of compound **16ag** in $CDCl_3$.

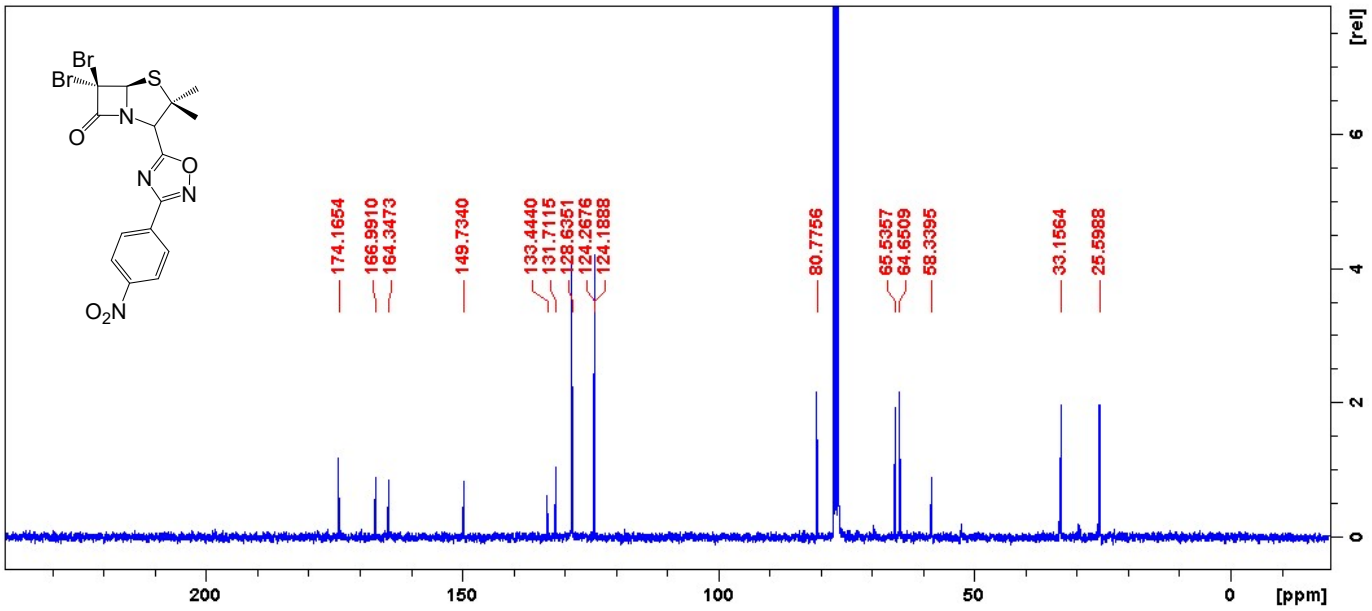


**Figure S 14**. $^{13}C$ NMR spectra of compound **16ag** in $CDCl_3$.

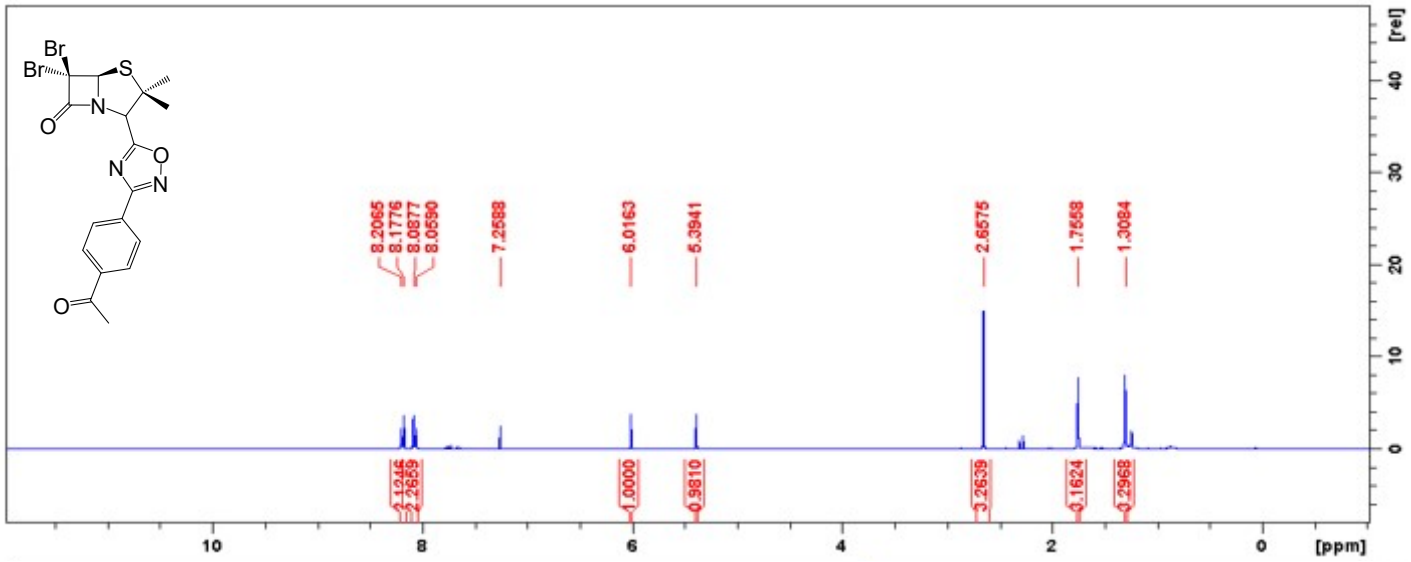


**Figure S 15**. $^{1}$H NMR spectra of compound **16ah** in $CDCl_3$.

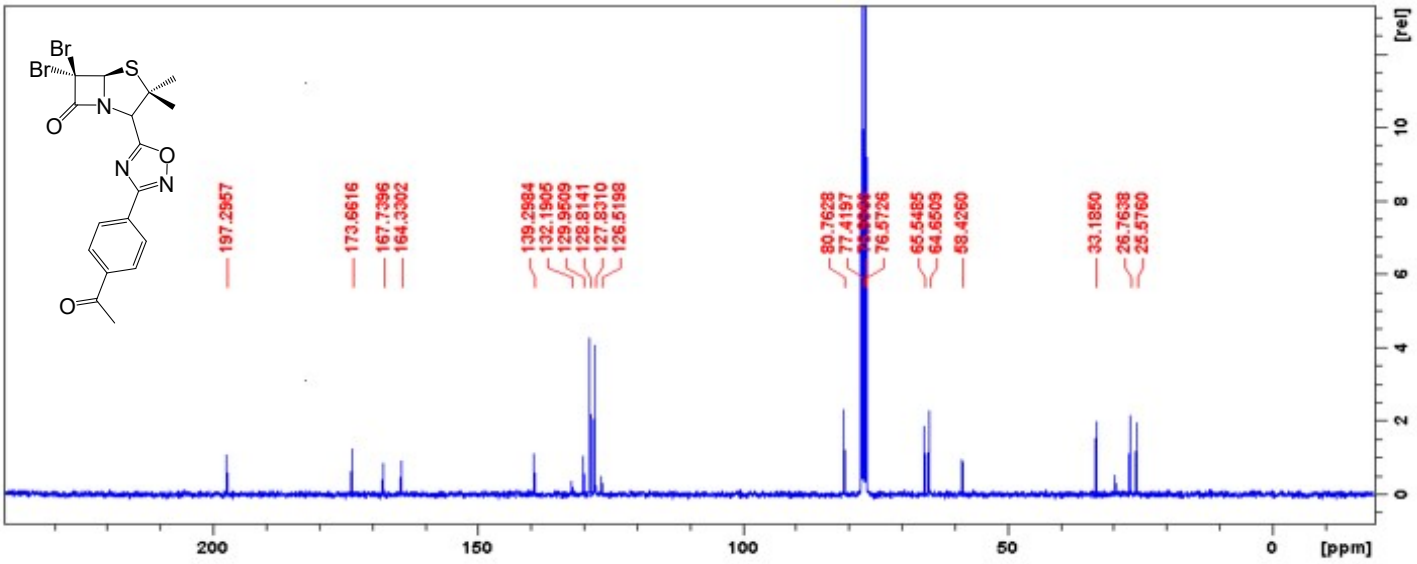


**Figure S 15**. $^{13}$C NMR spectra of compound **16ah** in $CDCl_3$.

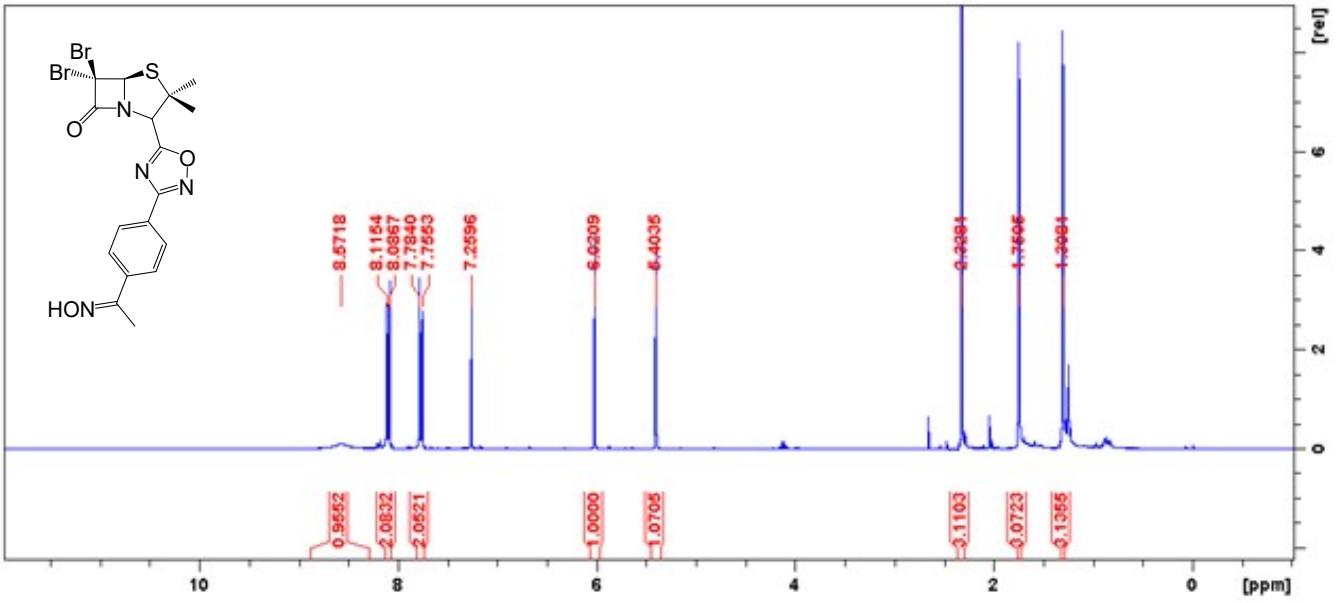


**Figure S 16**. $^{1}$H NMR spectra of compound **16ai** in $CDCl_3$.

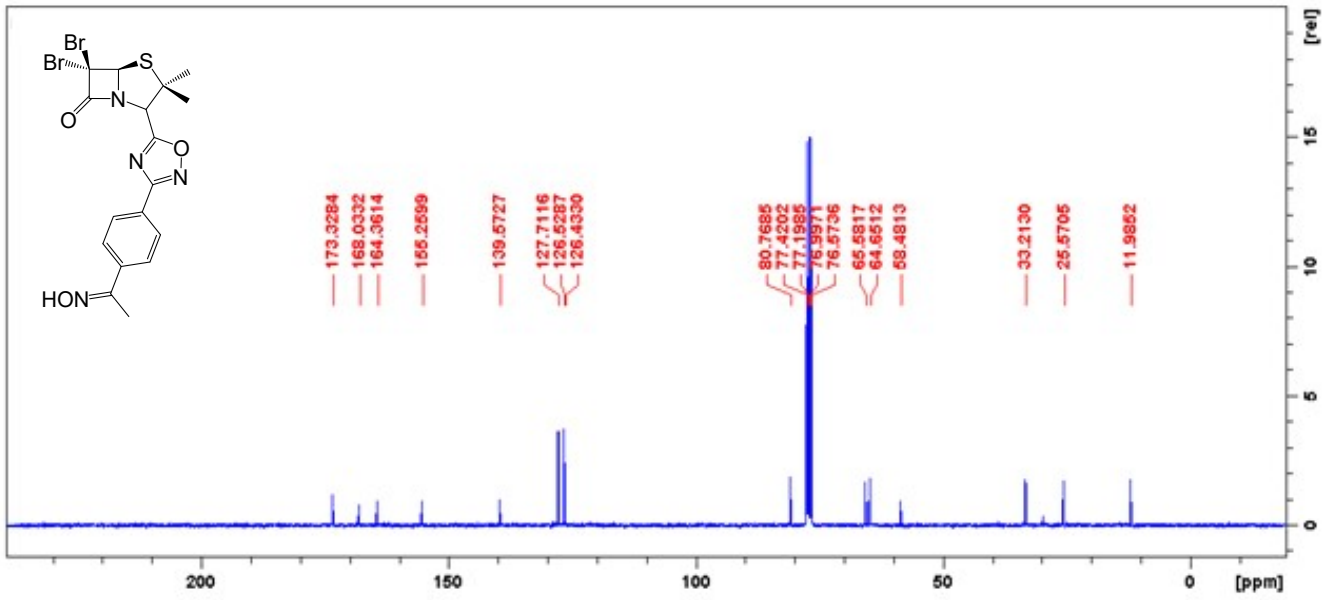


**Figure S 16**. $^{1}$C NMR spectra of compound **16ai** in $CDCl_3$.

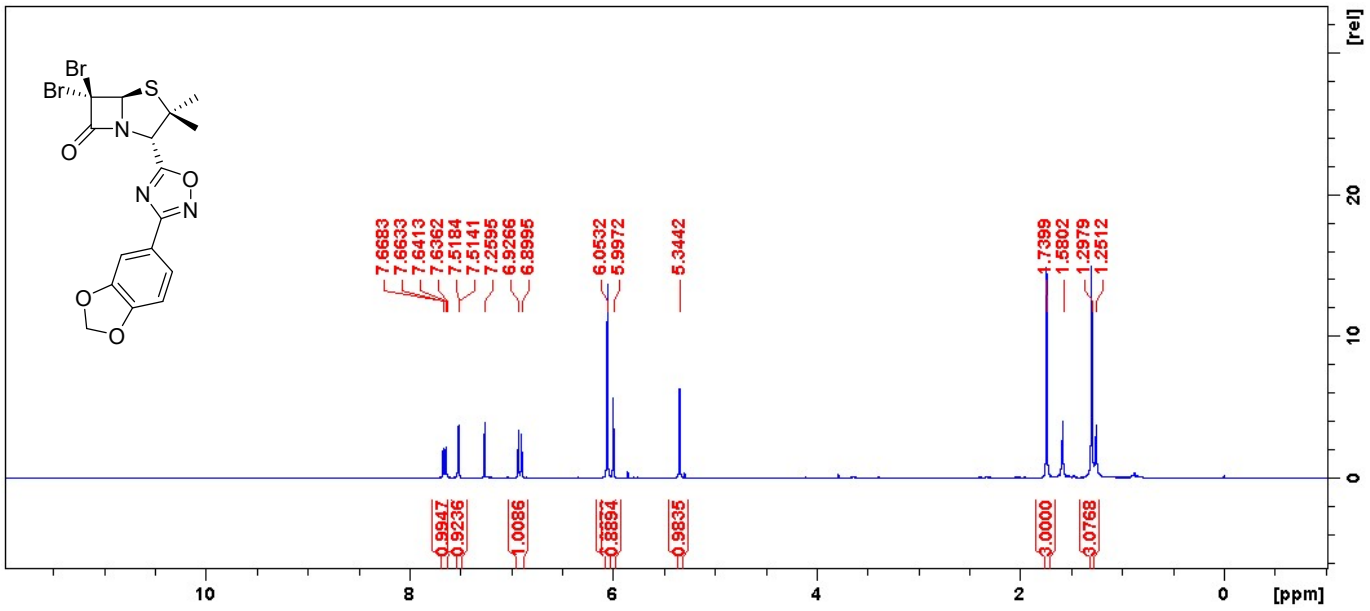


**Figure S 17**. $^{1}H$ NMR spectra of compound **16aj** in $CDCl_3$.

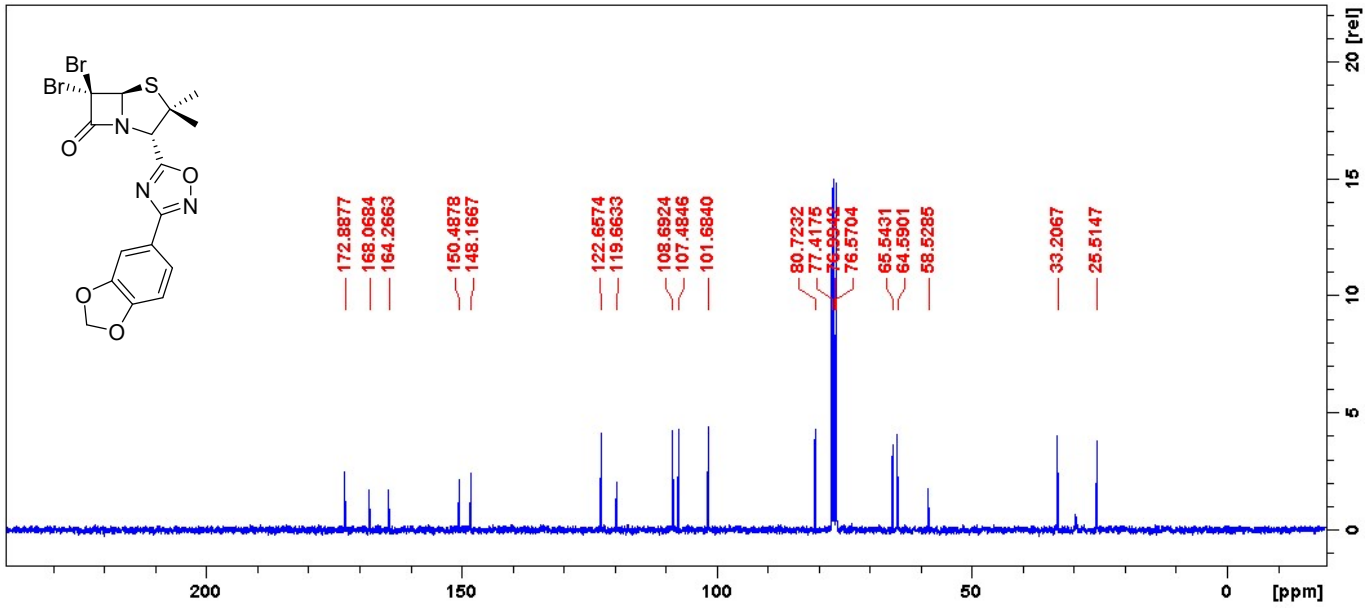


**Figure S 17**. $^{13}C$ NMR spectra of compound **16aj** in $CDCl_3$.

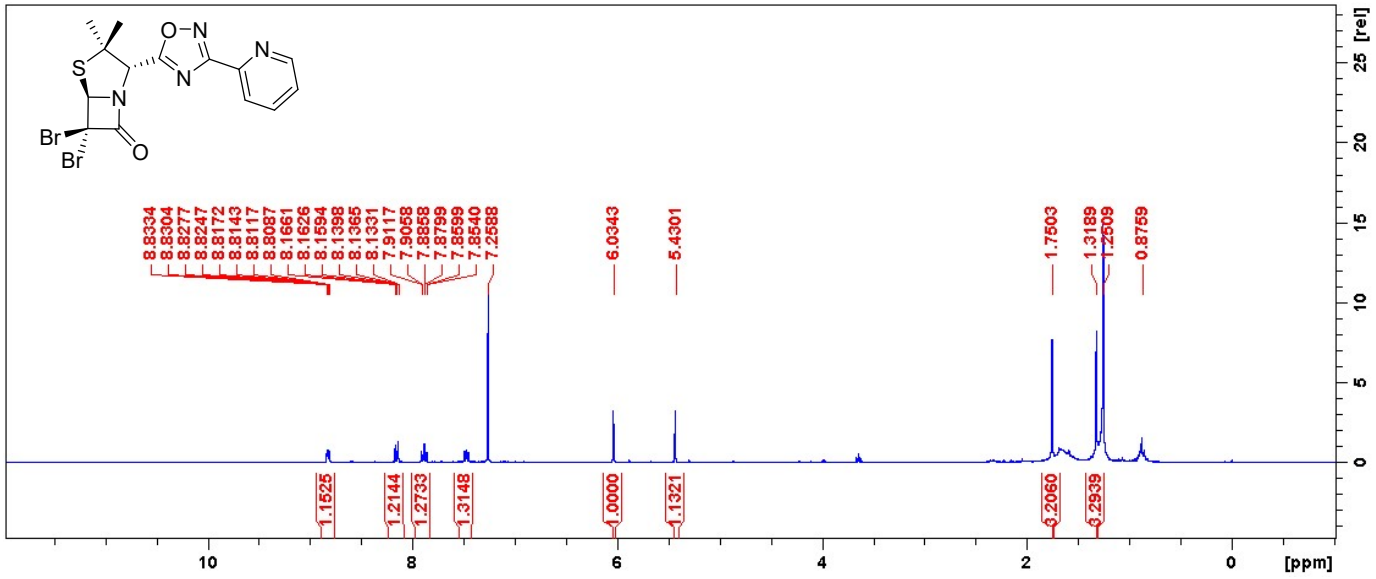


**Figure S 18**. $^{1}H$ NMR spectra of compound **16ak** in $CDCl_3$.

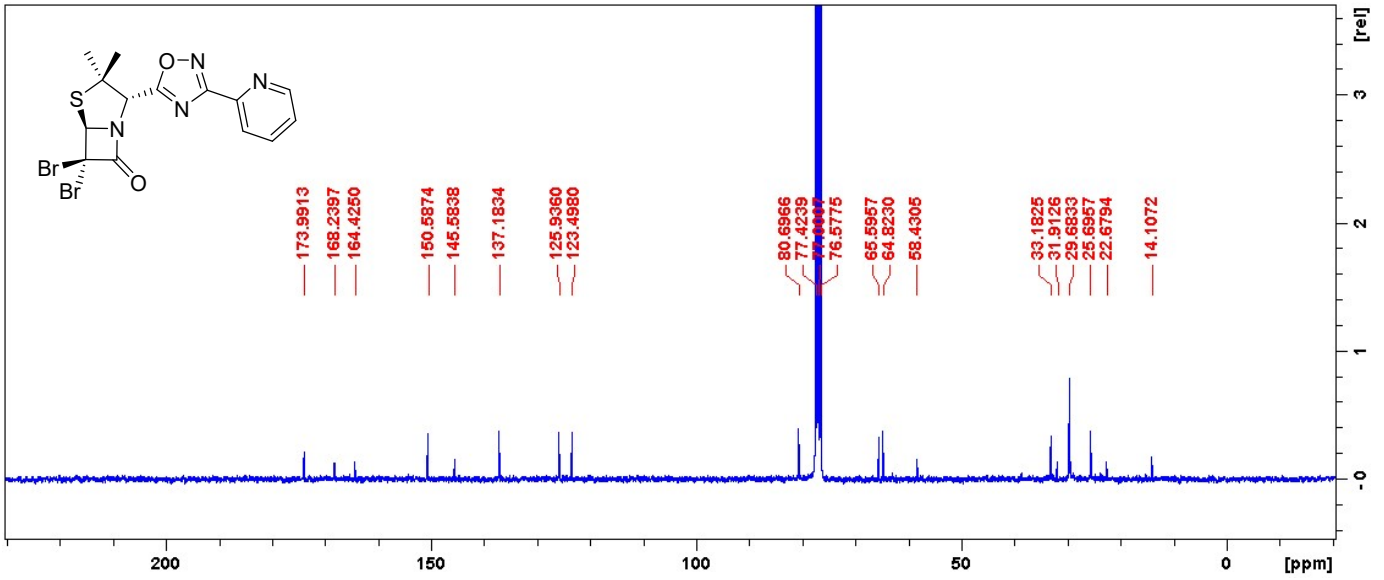


**Figure S 18**. $^{13}C$ NMR spectra of compound **16ak** in $CDCl_3$.

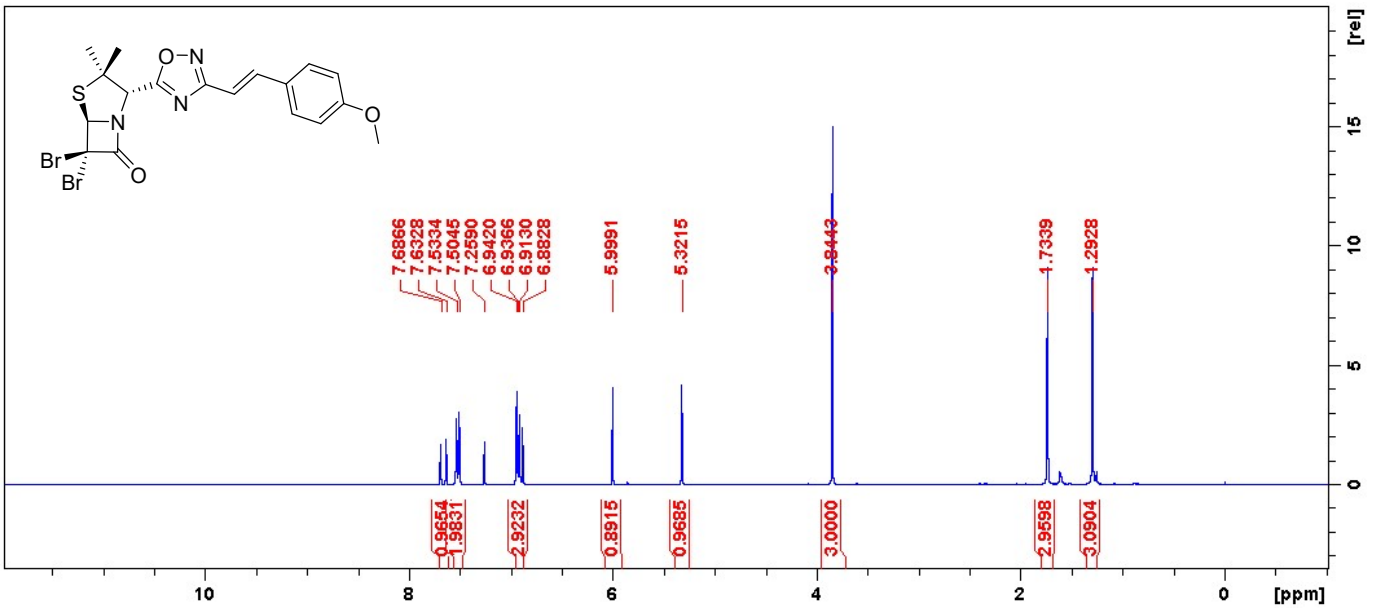


**Figure S 19**. $^{1}$H NMR spectra of compound **16am** in $CDCl_3$.

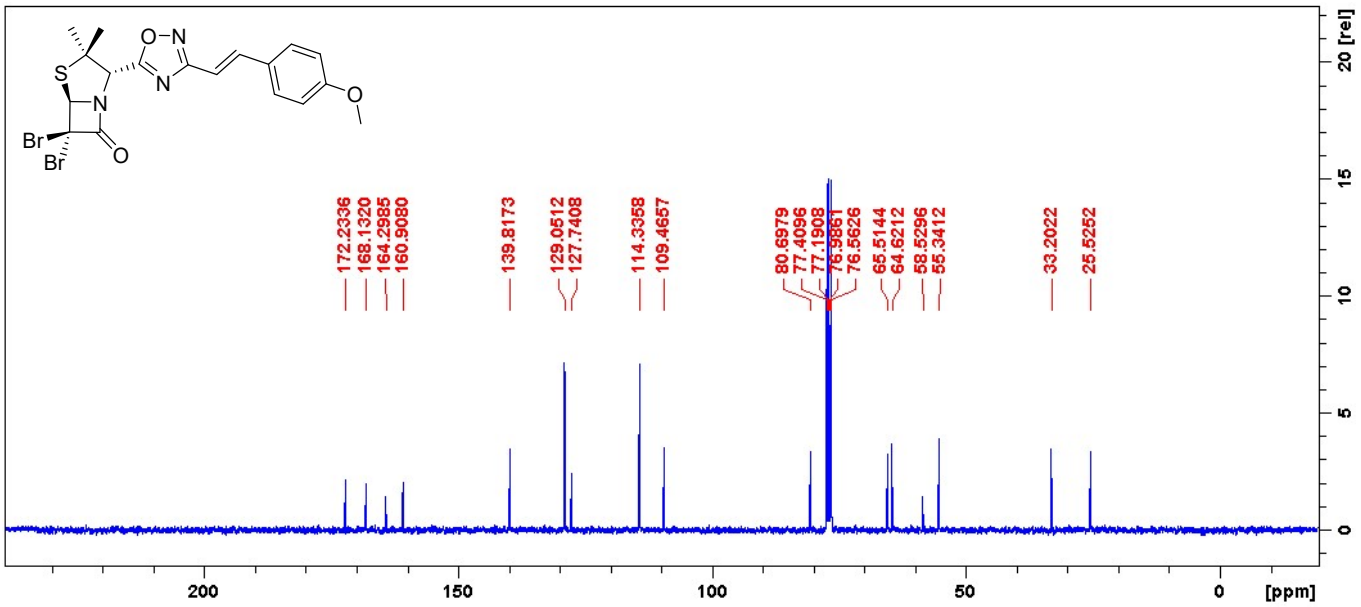


**Figure S 19**. $^{13}$C NMR spectra of compound **16am** in $CDCl_3$.

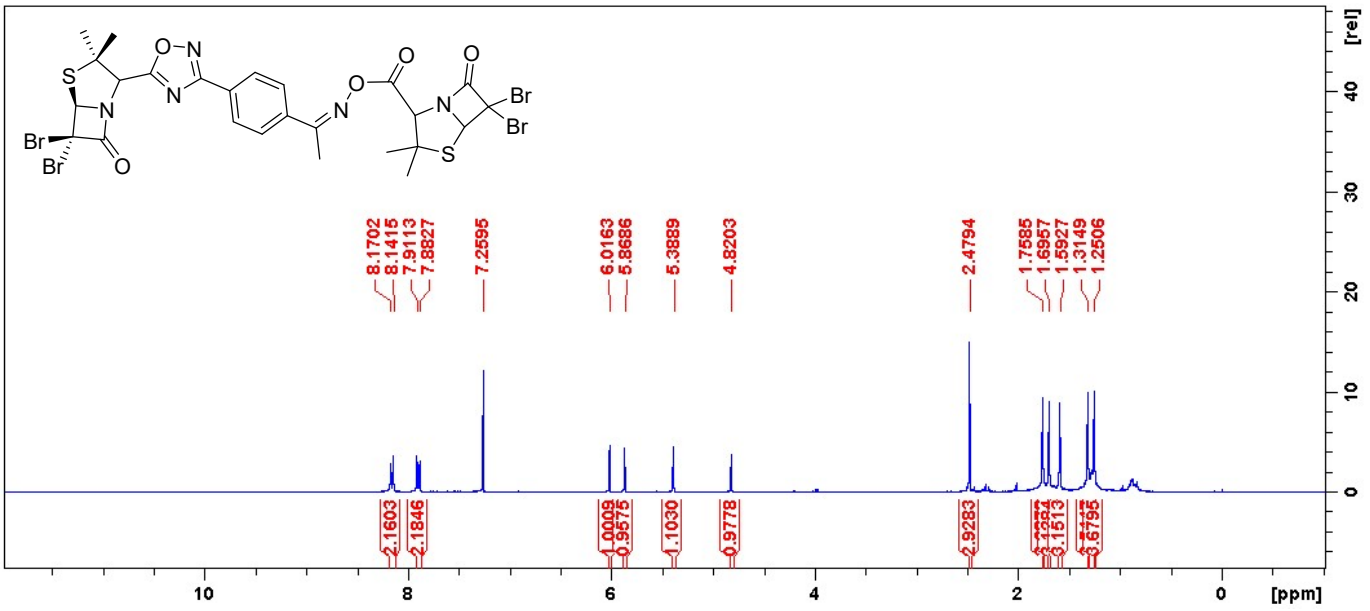


**Figure S 20**. $^{1}H$ NMR spectra of compound **17ai** in $CDCl_3$.

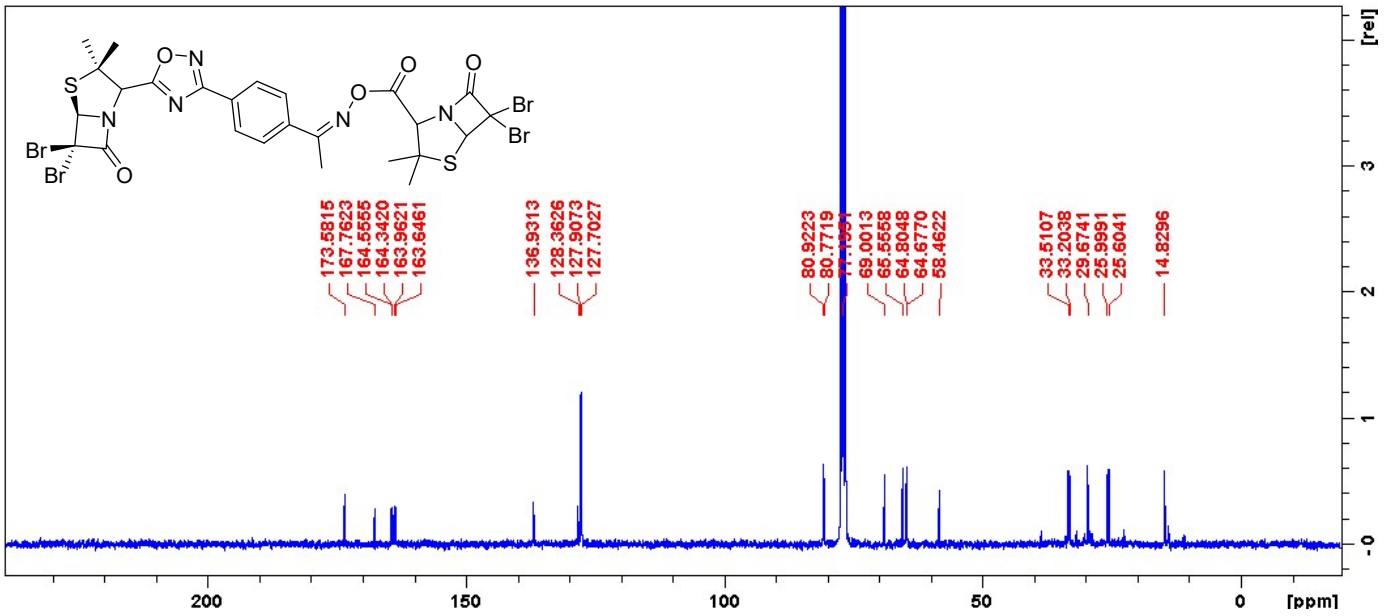


**Figure S 20**. $^{13}C$ NMR spectra of compound **17ai** in $CDCl_3$.

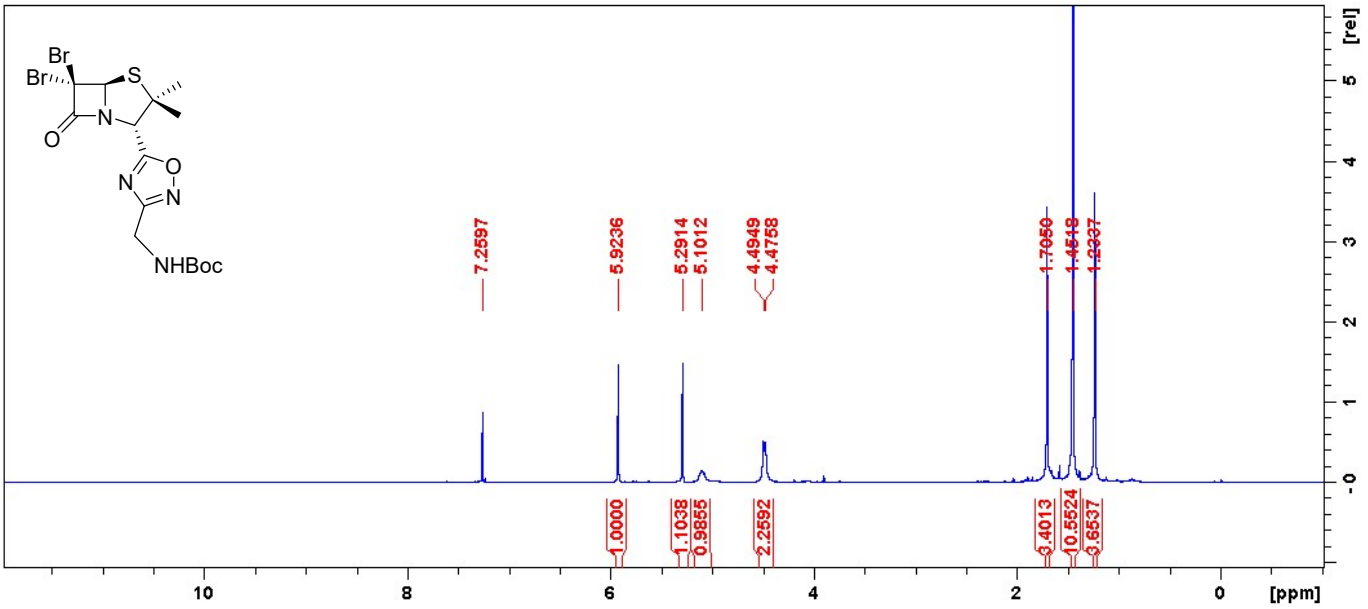


**Figure S 21.** $^{1}$H NMR spectra of compound **22aa** in CDCl3.

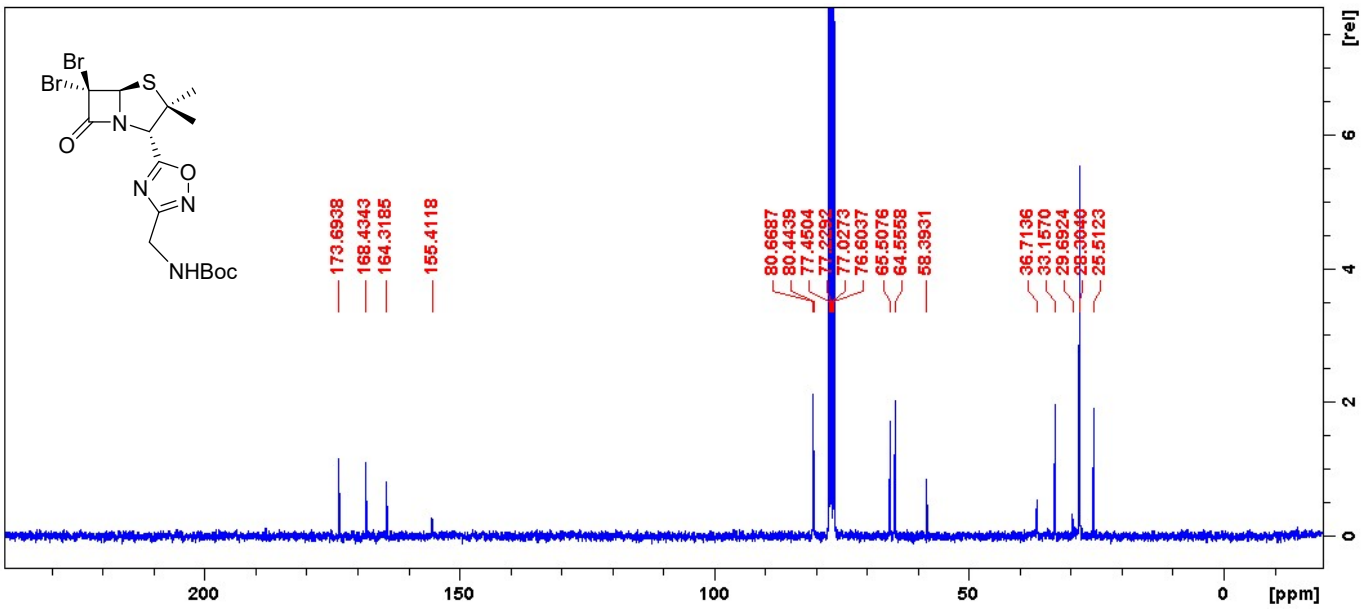


**Figure S 21**. $^{13}$C NMR spectra of compound **22aa** in $CDCl_3$.

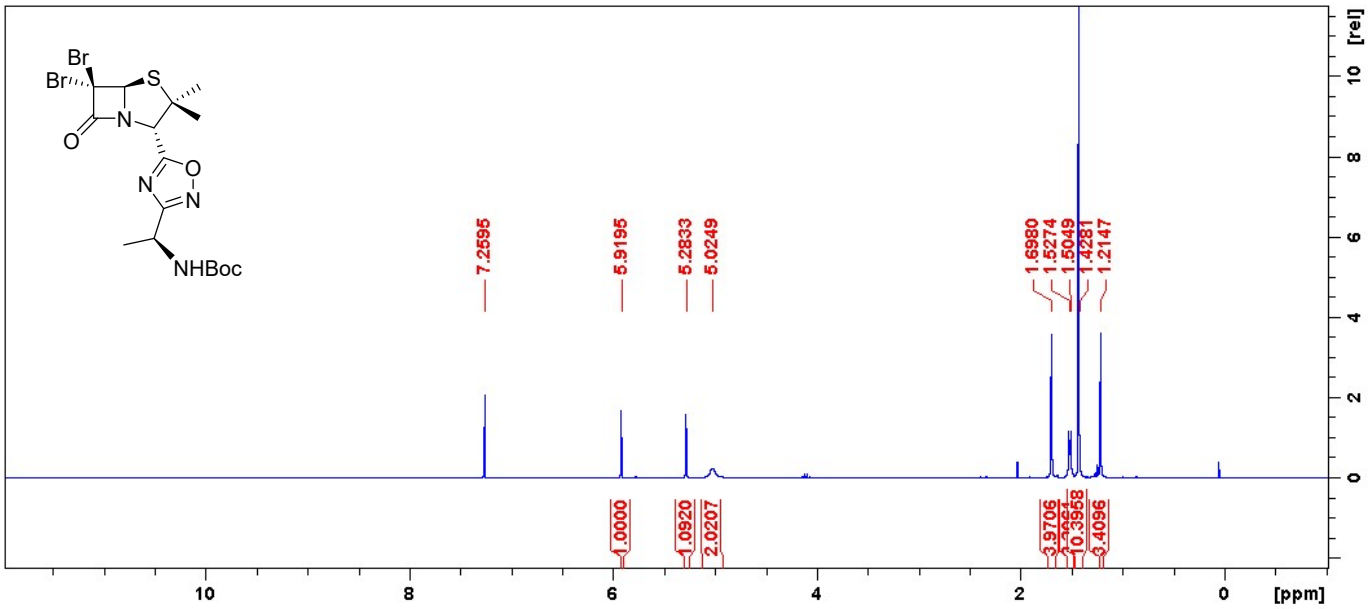


**Figure S 22.** $^{1}$H NMR spectra of compound **22ab** in $CDCl_3$.

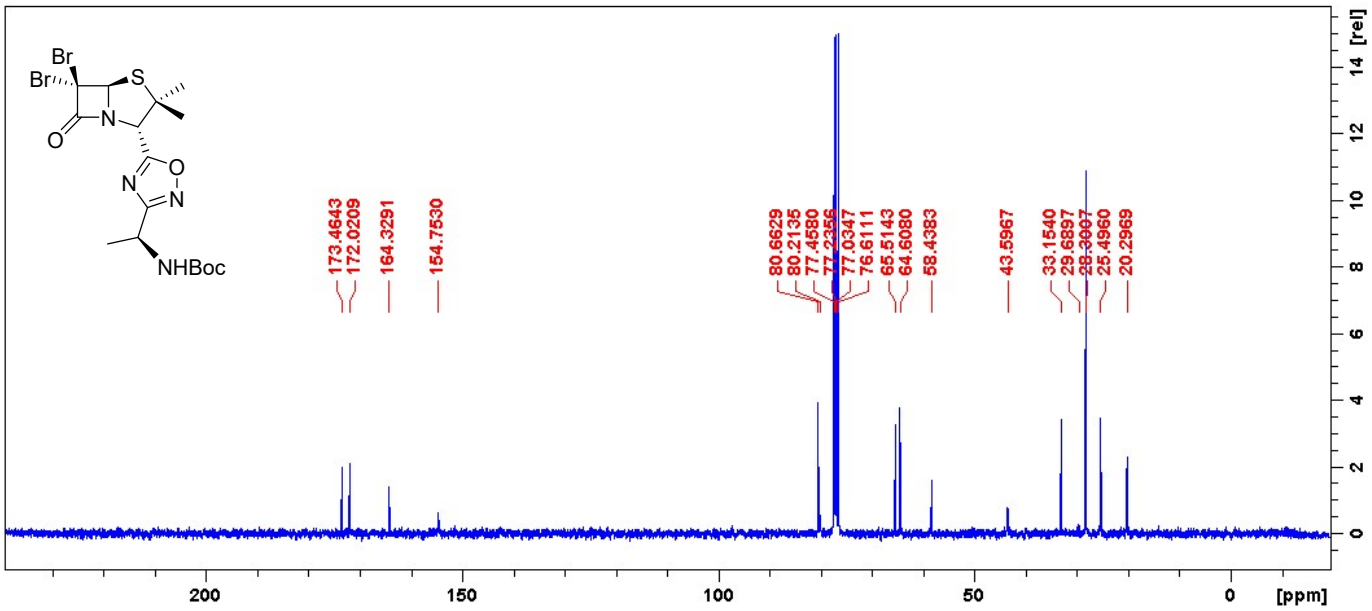


**Figure S 22.** $^{13}$C NMR spectra of compound **22ab** in $CDCl_3$.

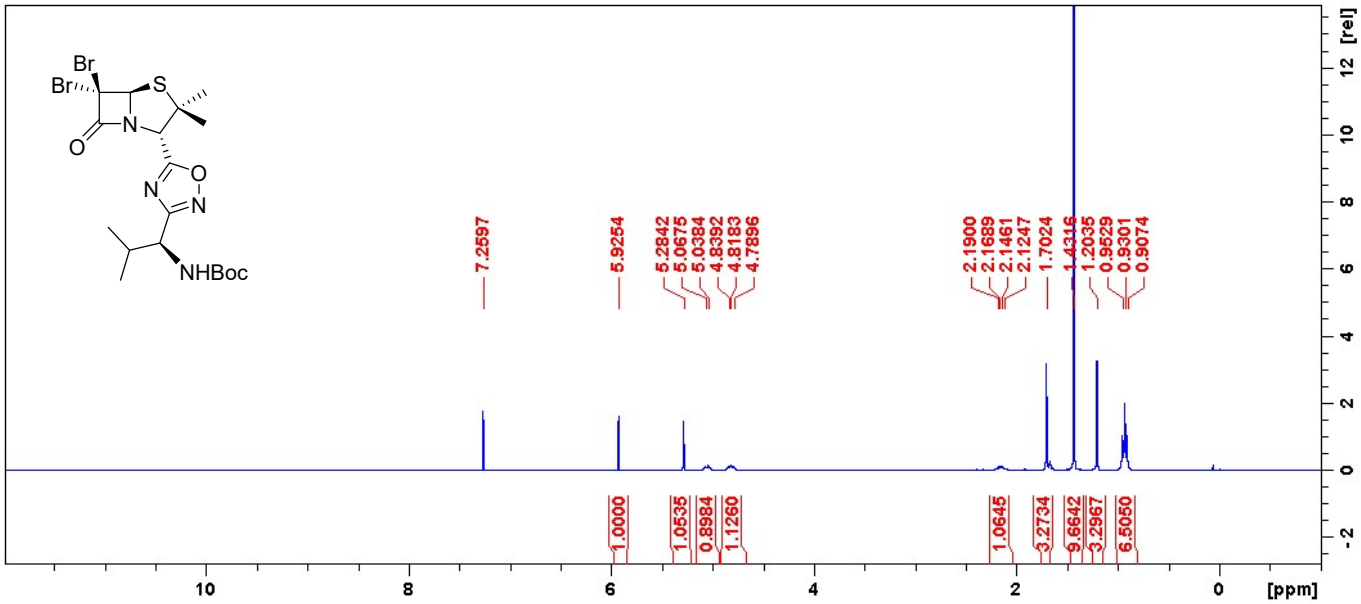


**Figure S 23**. $^{1}H$ NMR spectra of compound **22ac** in $CDCl_3$.

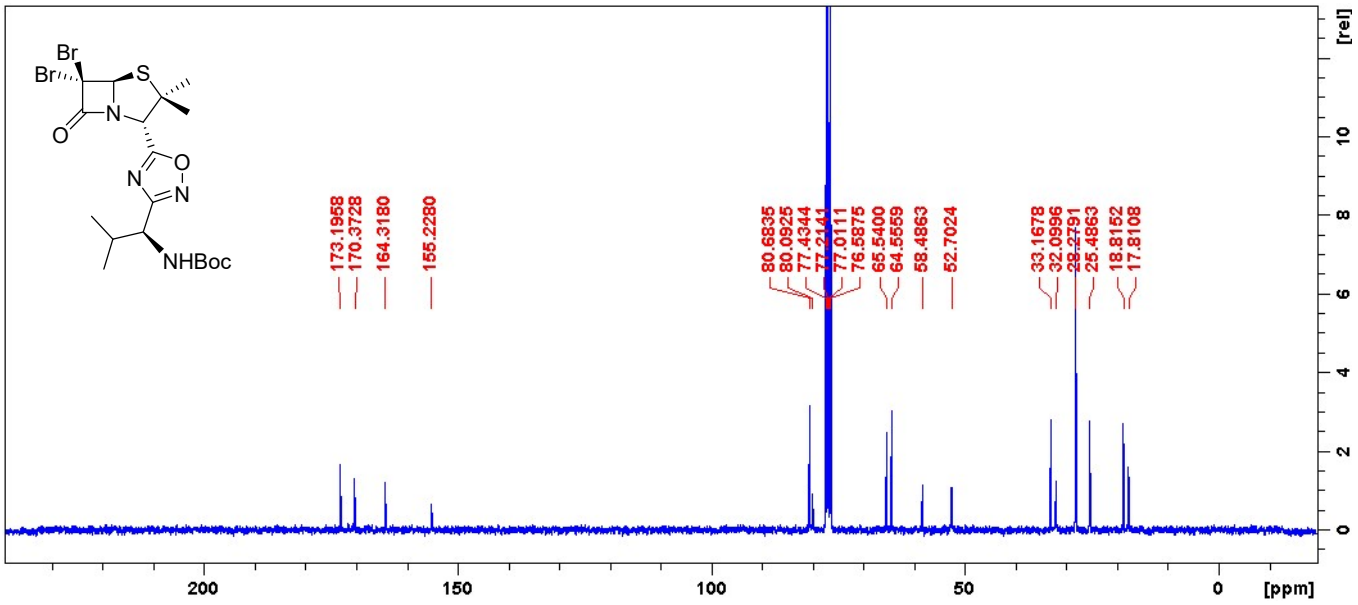


**Figure S 23**. $^{13}C$ NMR spectra of compound **22ac** in $CDCl_3$.

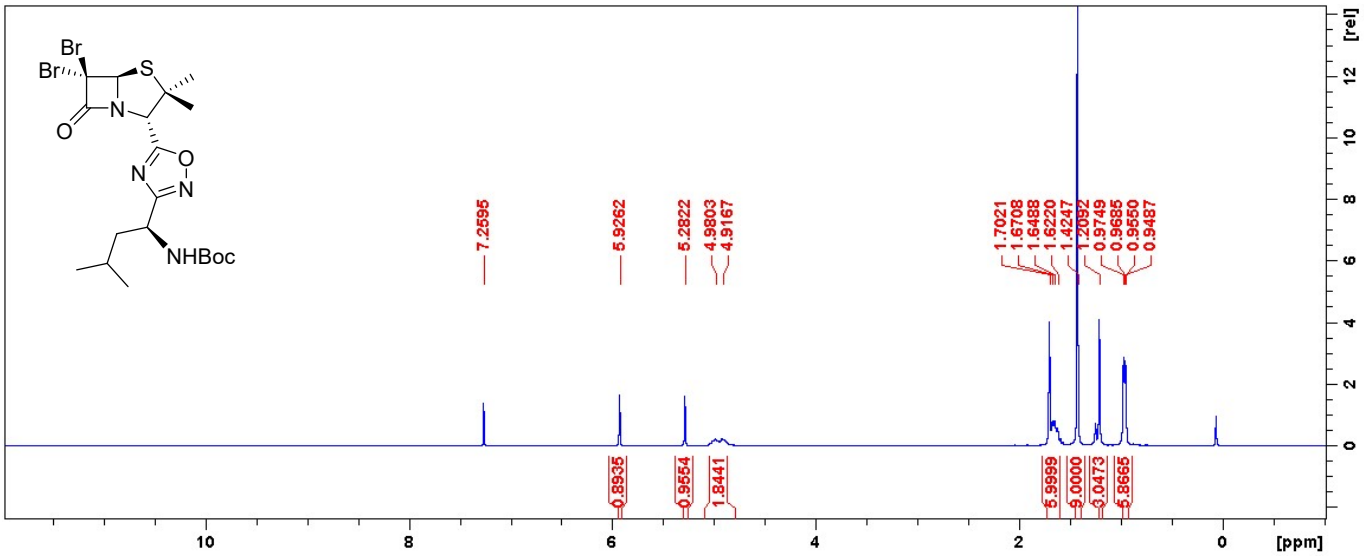


**Figure S 24**. $^{1}$H NMR spectra of compound **22ad** in $CDCl_3$.

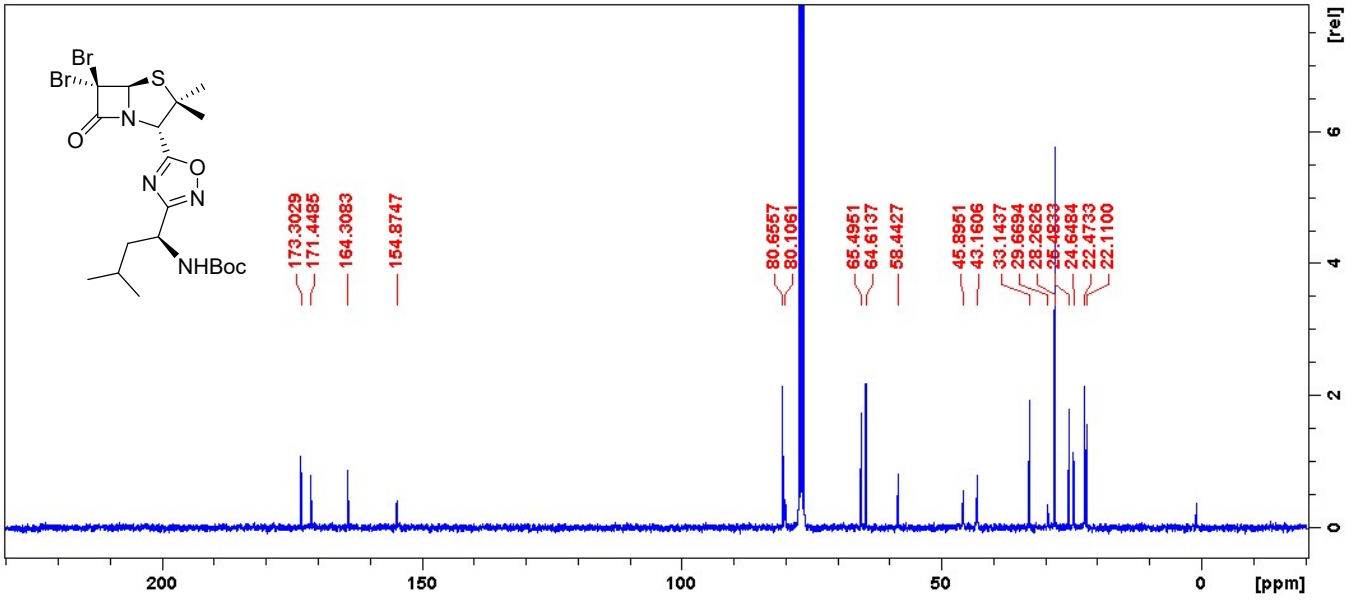


**Figure S 24**. $^{13}$C NMR spectra of compound **22ad** in $CDCl_3$.

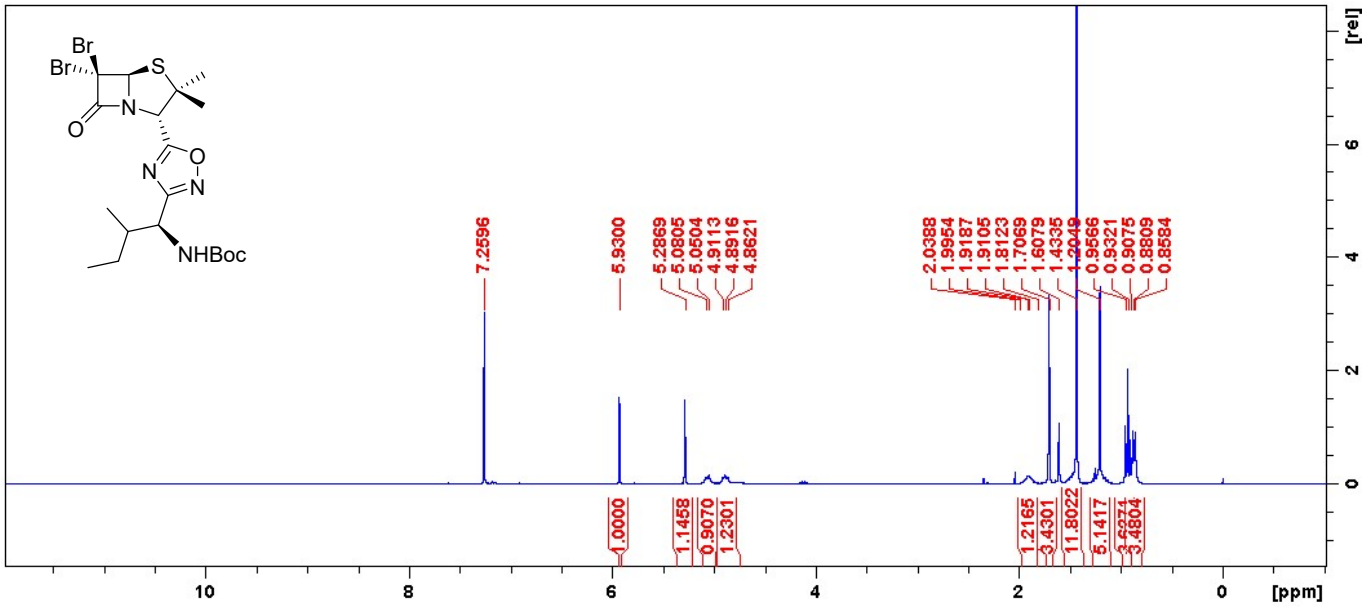


**Figure S 25**. $^{1}H$ NMR spectra of compound **22ae** in $CDCl_3$.

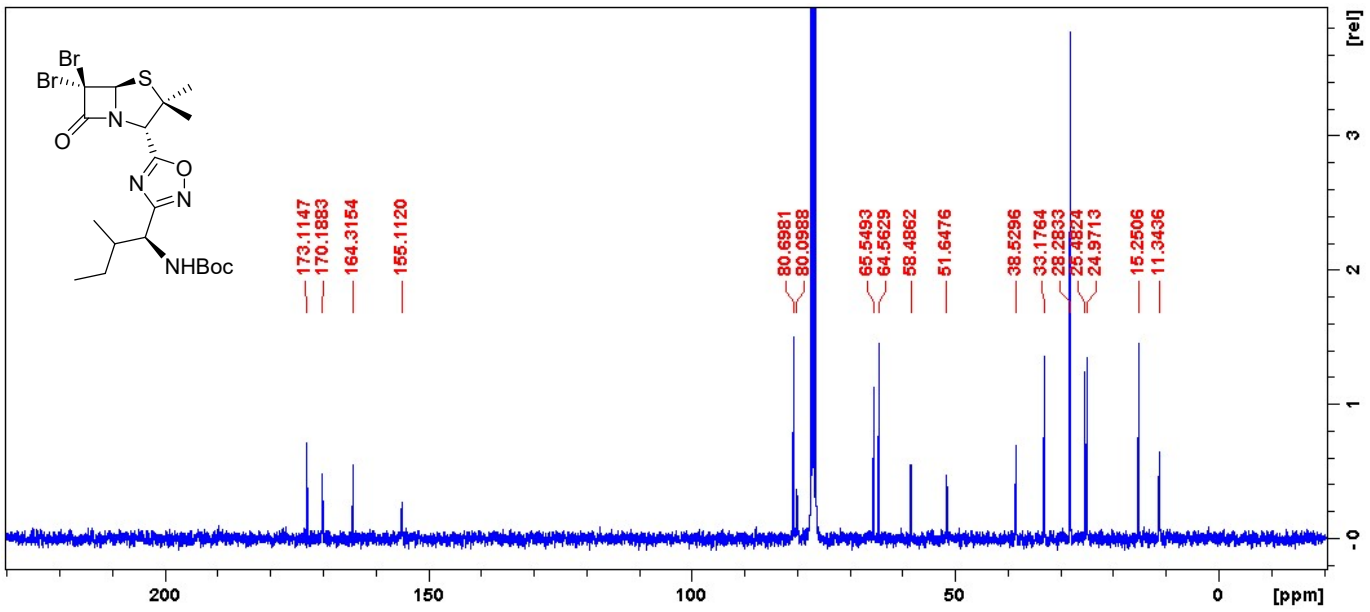


**Figure S 25**. $^{13}C$ NMR spectra of compound **22ae** in $CDCl_3$.

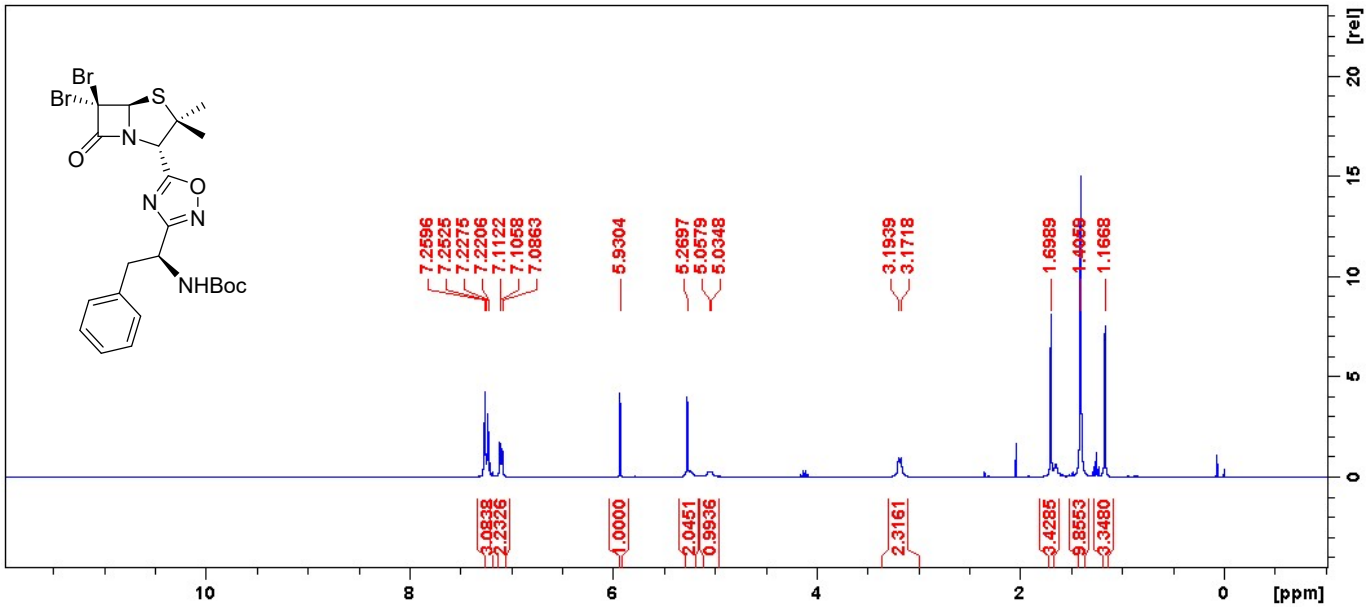


**Figure S 26**. $^{1}H$ NMR spectra of compound **22af** in $CDCl_3$.

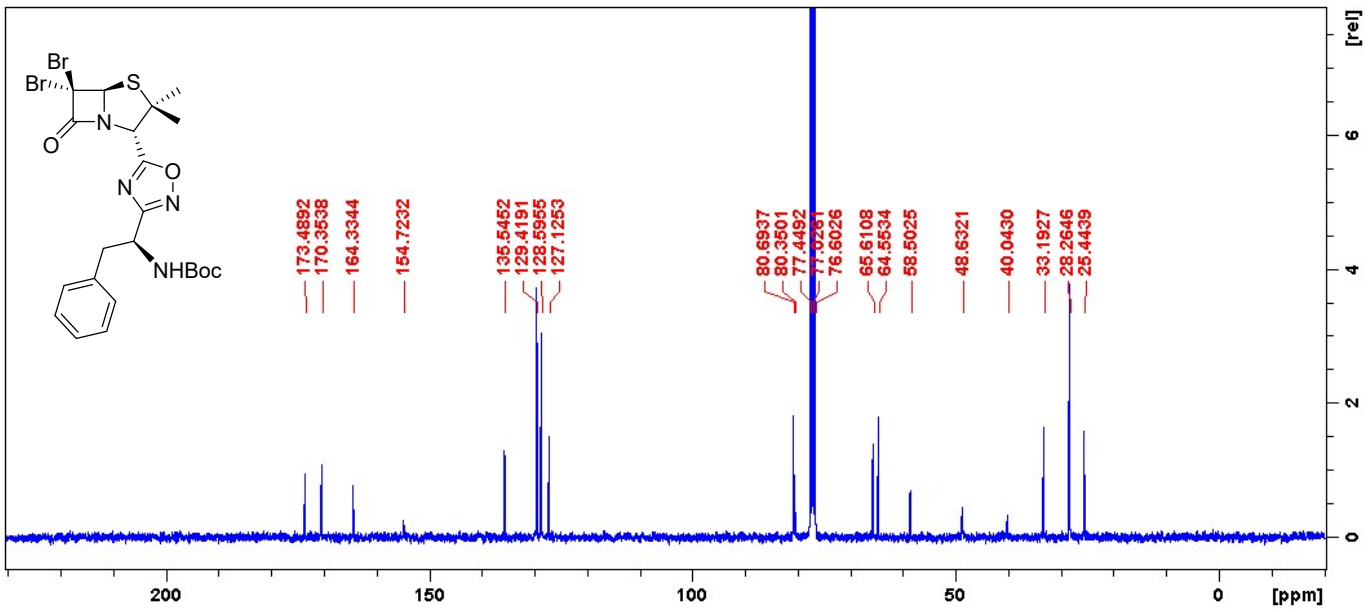


**Figure S 26**. $^{13}C$ NMR spectra of compound **22af** in $CDCl_3$.

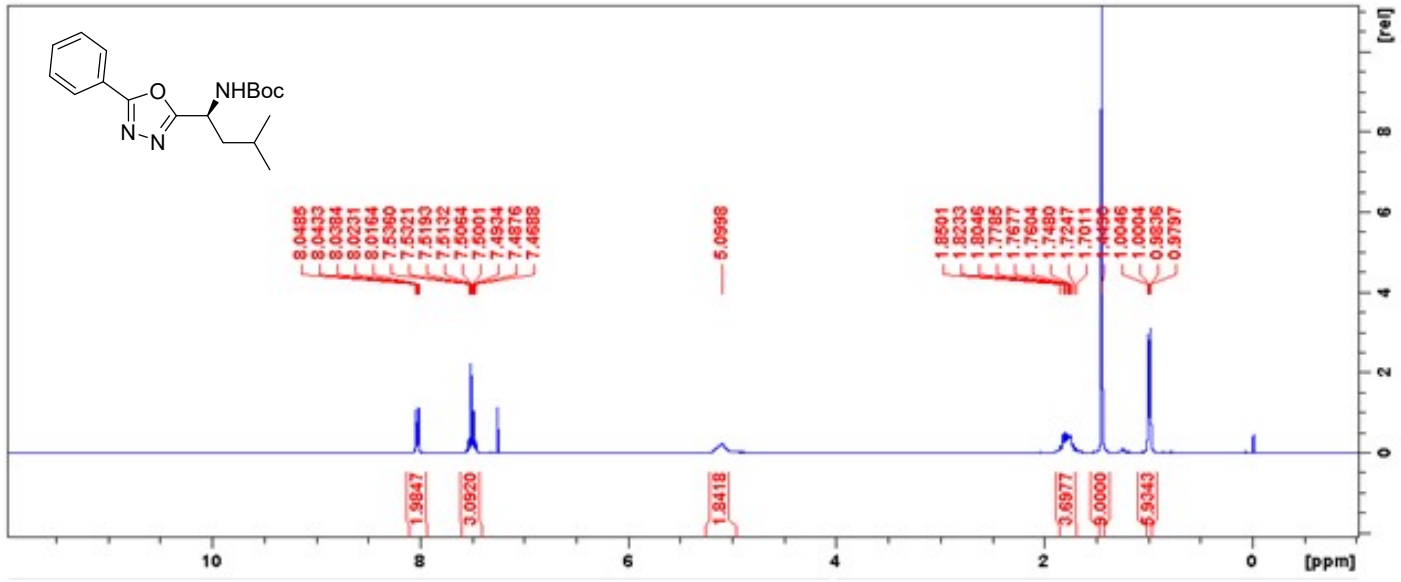


**Figure S 27**. $^{1}H$ NMR spectra of compound **26ba** in $CDCl_3$.

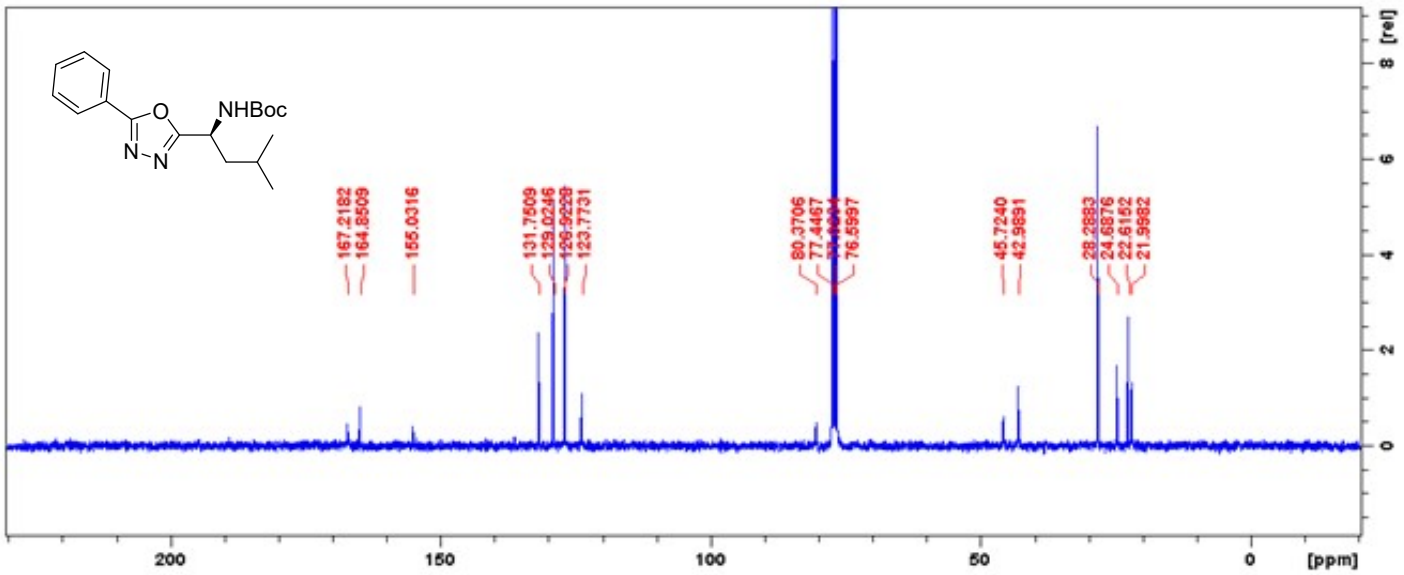


**Figure S 27**. $^{13}C$ NMR spectra of compound **26ba** in $CDCl_3$.

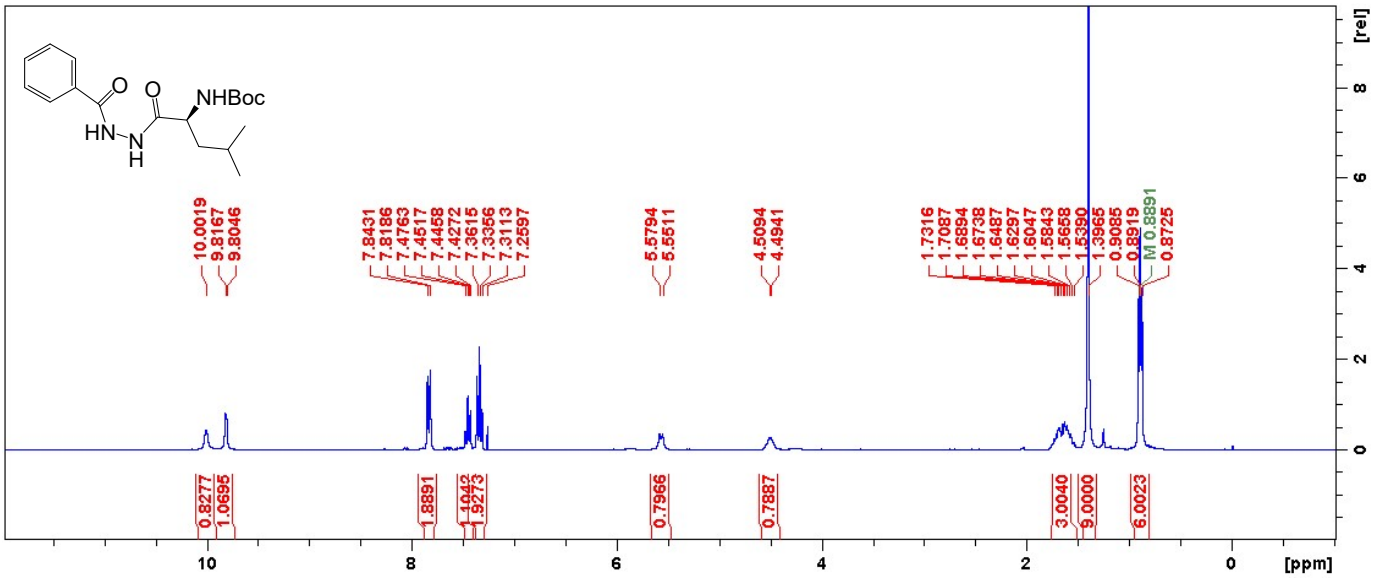


**Figure S 28**. $^{1}H$ NMR spectra of compound **25ba** in $CDCl_3$.

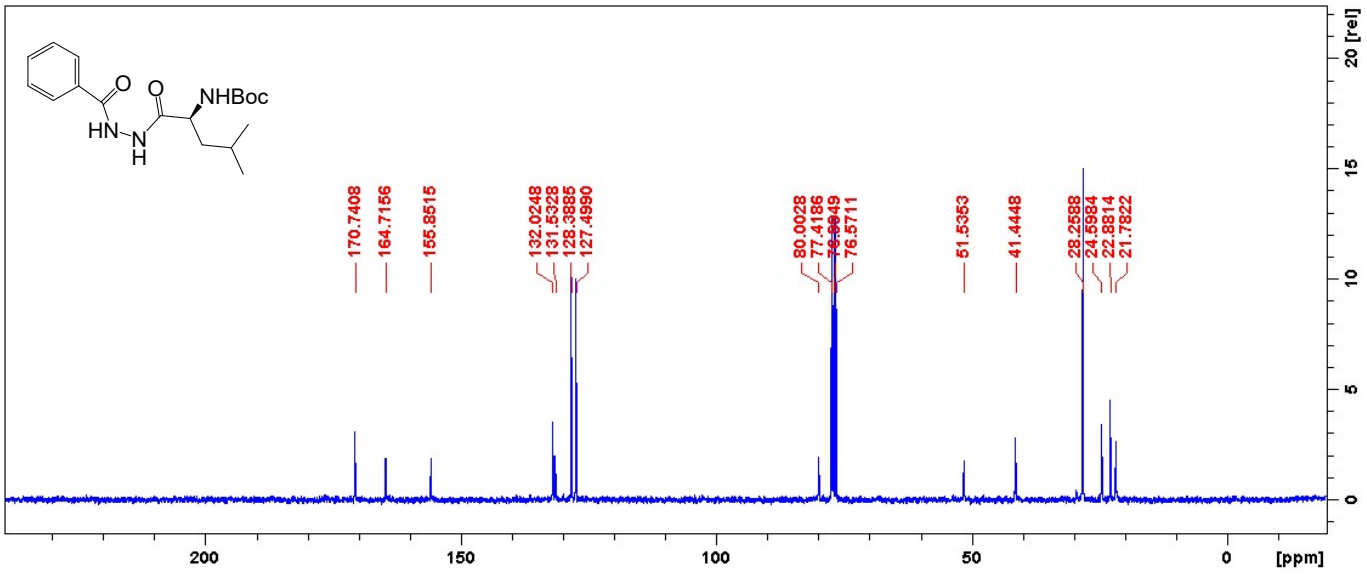


**Figure S 28**. $^{13}C$ NMR spectra of compound **25ba** in $CDCl_3$.

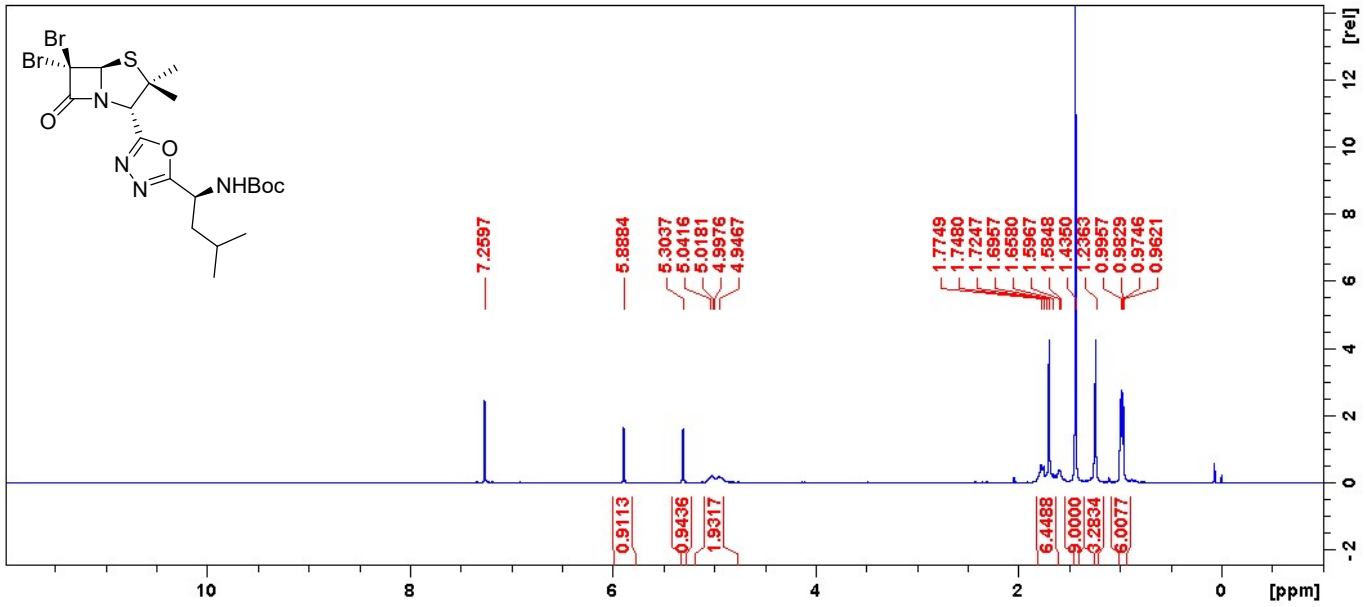


**Figure S 29**. $^{1}H$ NMR spectra of compound **26aa** in $CDCl_3$.

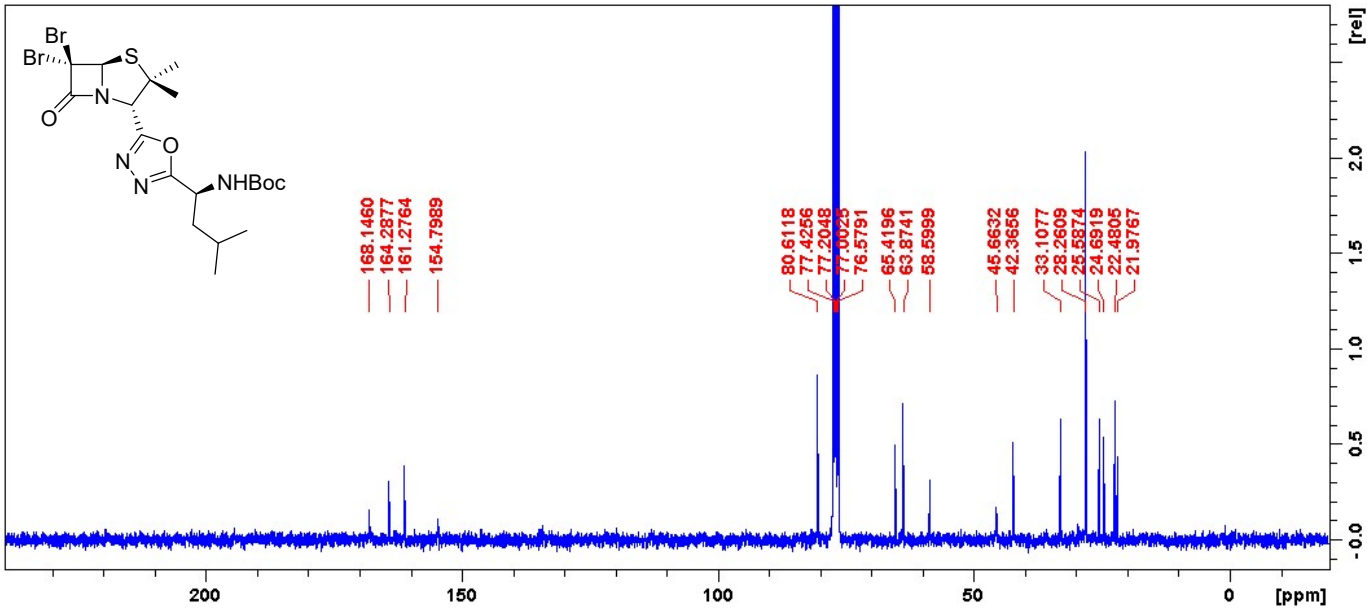


**Figure S 29**. $^{13}C$ NMR spectra of compound **26aa** in $CDCl_3$.

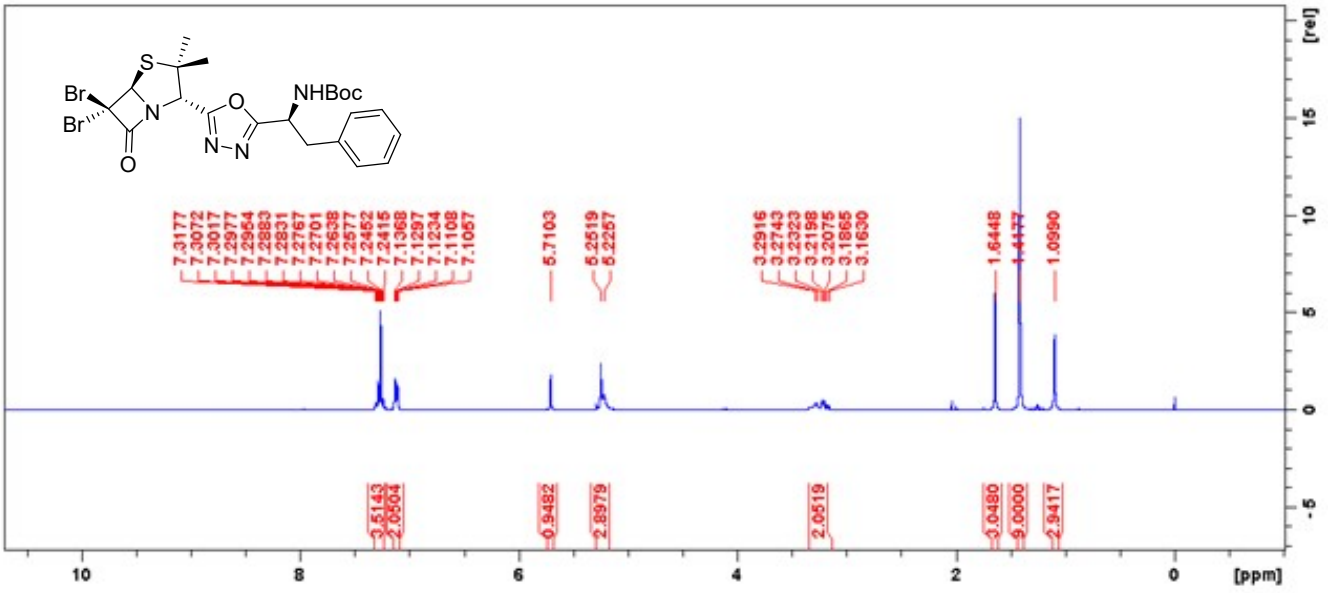


**Figure S 30**. $^{1}H$ NMR spectra of compound **26ab** in in $CDCl_3$.

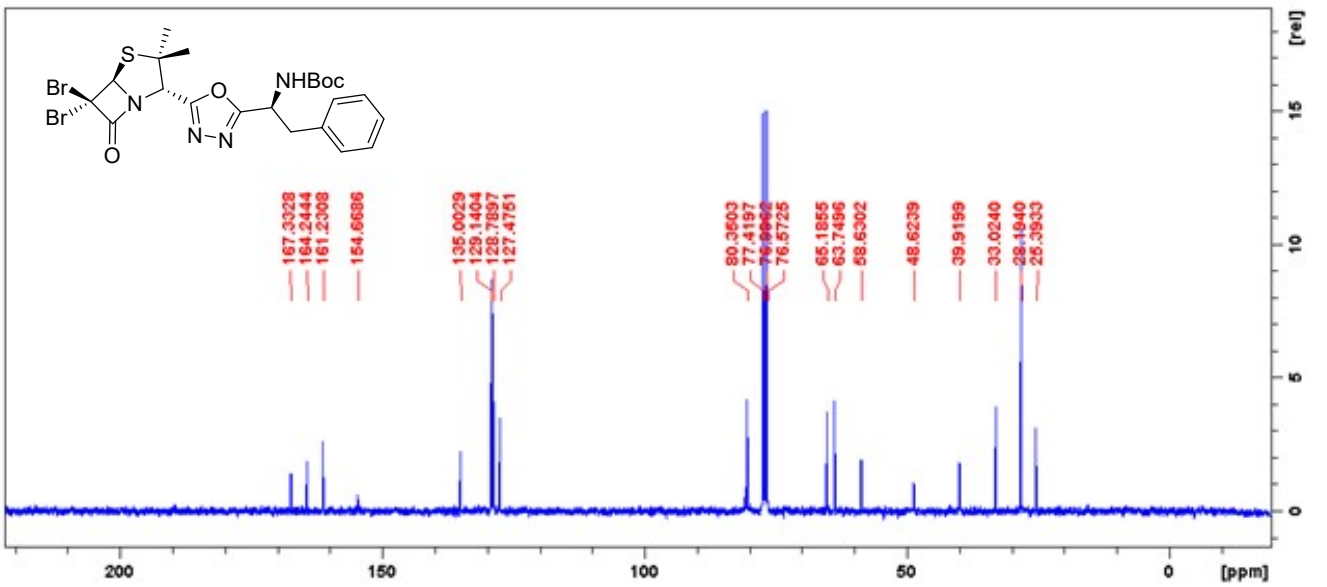


**Figure S 30**. $^{13}C$ NMR spectra of compound **26ab** in in $CDCl_3$.

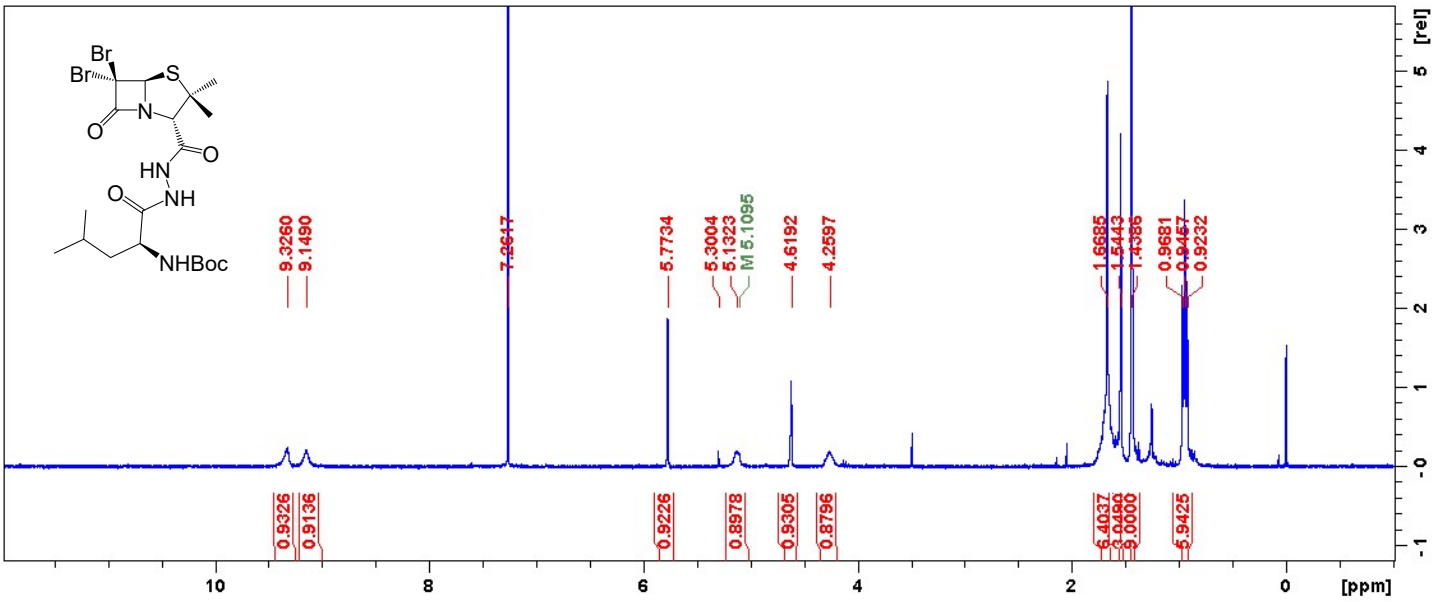


**Figure S 31.** $^{1}$H NMR spectra of compound **25aa** in CDCl3.

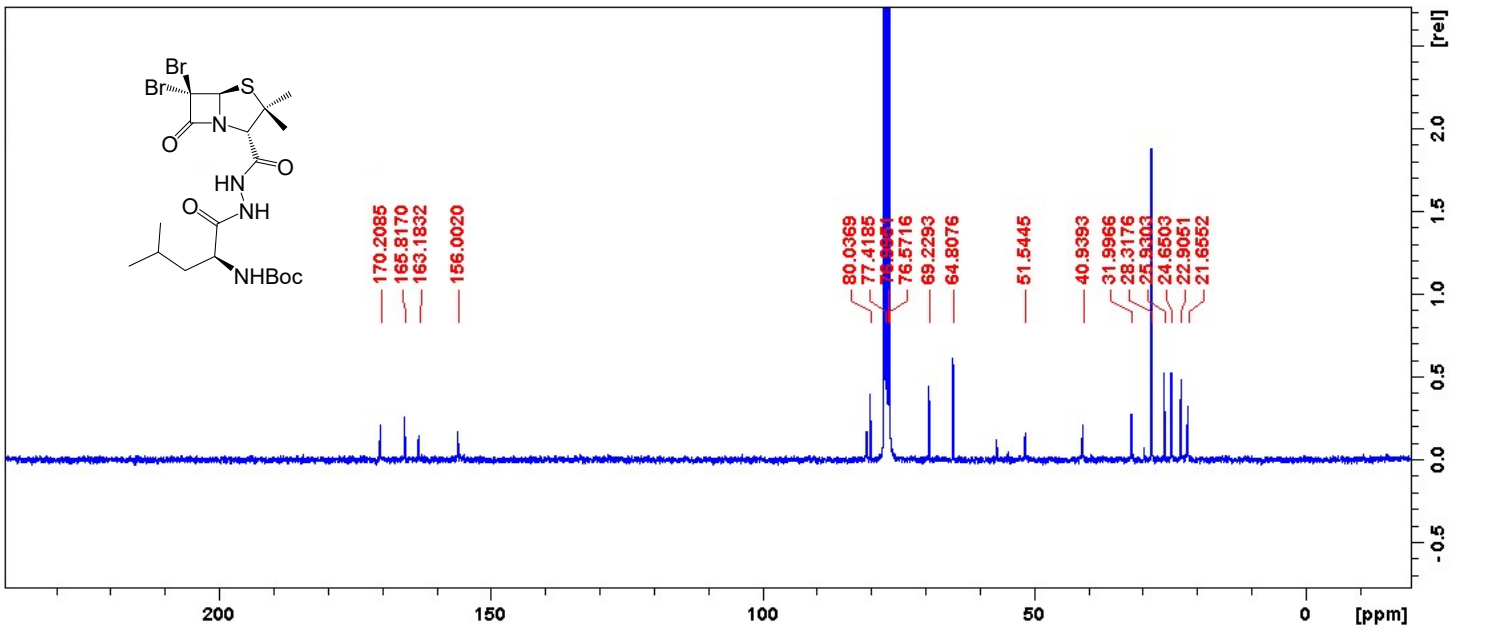


**Figure S 31.** $^{13}$C NMR spectra of compound **25aa** in CDCl3.

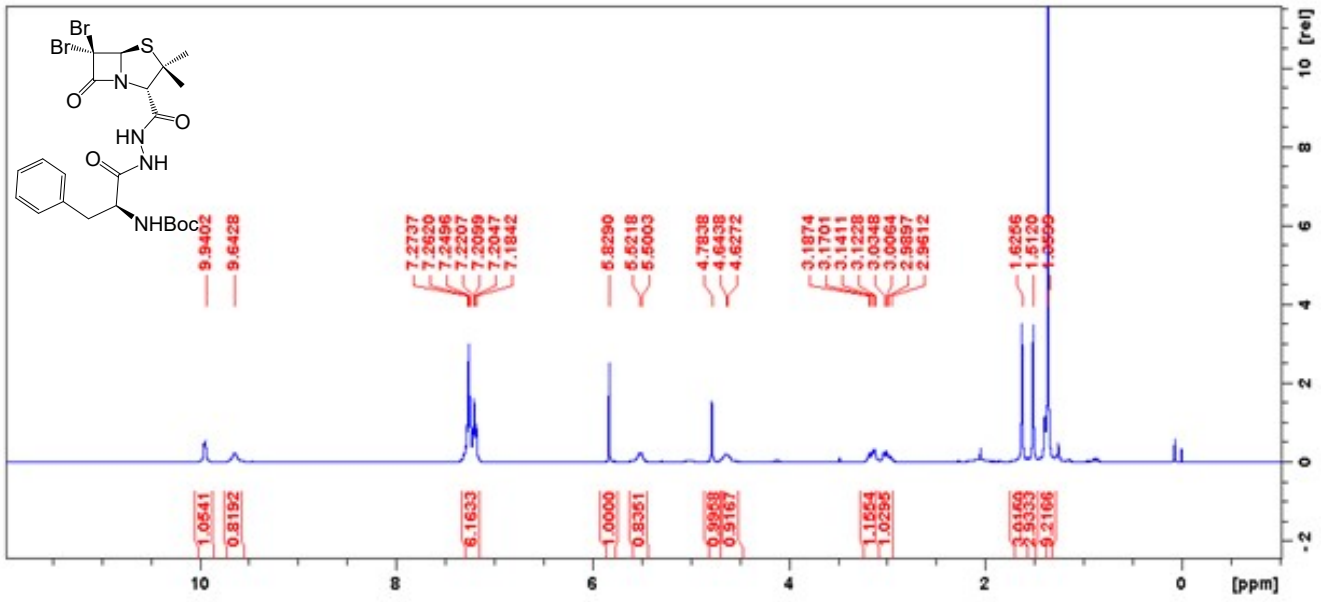


**Figure S 32**. $^{1}$H NMR spectra of compound **25ab** in $CDCl_3$.

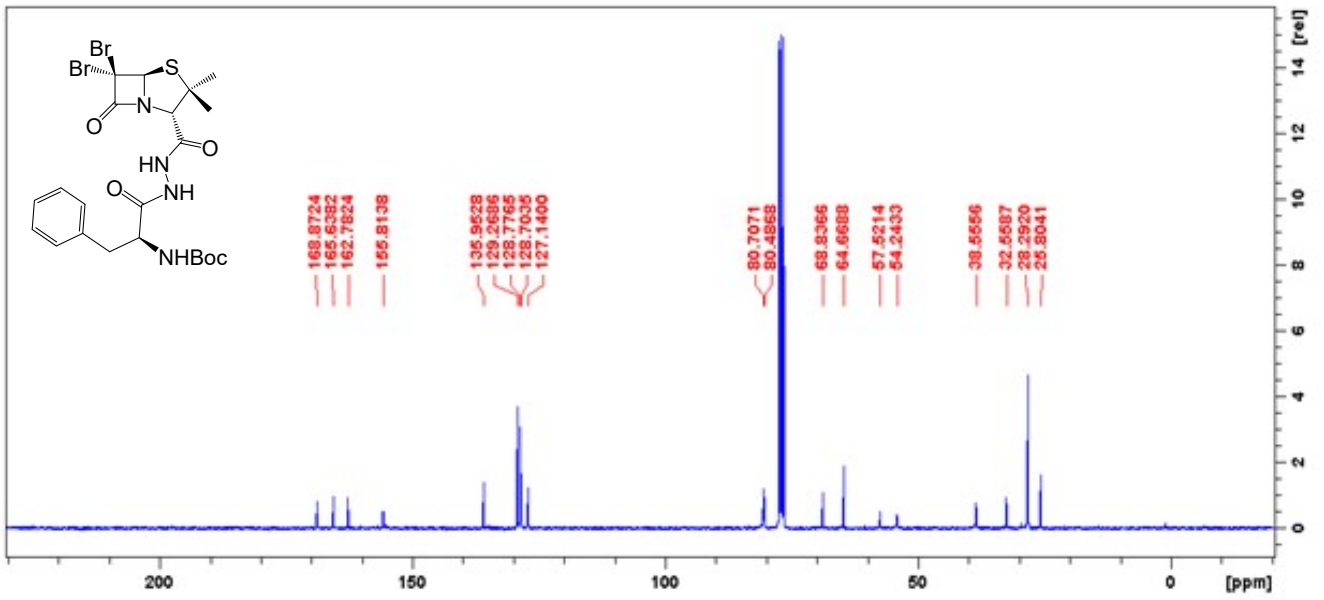


**Figure S 32**. $^{13}$C NMR spectra of compound **25ab** in $CDCl_3$.

## 2. Variable temperature $^{1}$H NMR experiment on compound 13ca

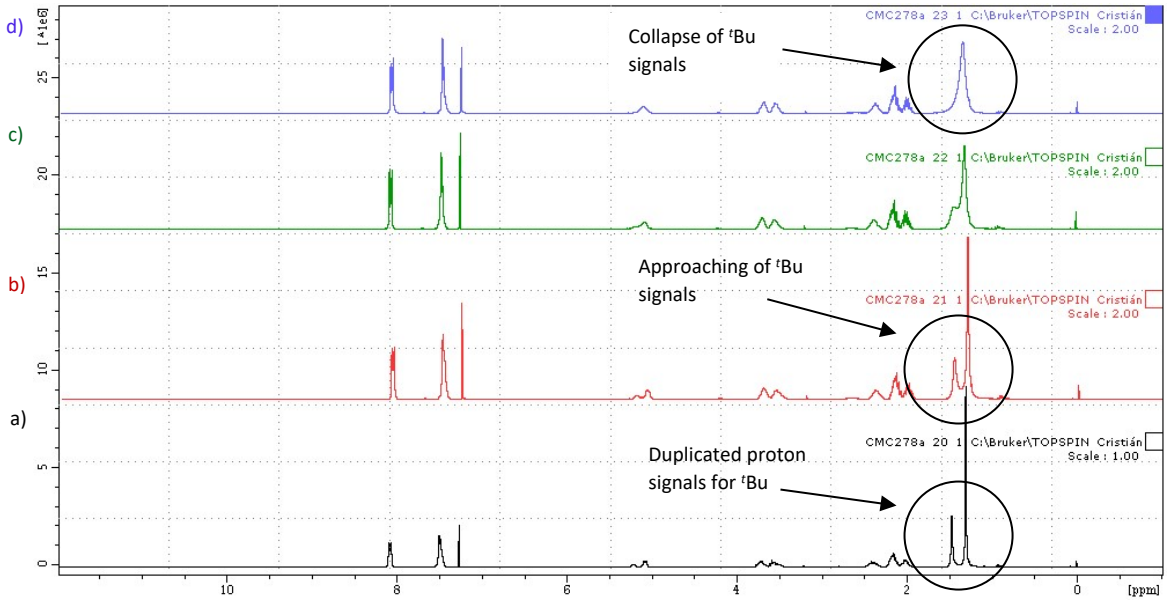


**Figure S 33**. Variable temperature $^{1}$H NMR experiment on compound **13ca**: a) at room temperature. b) at 35°C. c) at 45°C. d) at 55°C. The collapse of the duplicated proton signals corresponding to the *t*-butyl methyl groups is clearly appreciated when temperature rises from r.t. to 55°C.