

Supplementary Data

Paenidigyamycin G: 1-Acetyl-2,4-dimethyl-3-phenethyl-1*H*-imidazol-3-ium

Gilbert Mawuli Tetevi ¹, Samuel Kwain ¹, Thomas Mensah ¹, Anil Sazak Camas ²,
Mustafa Camas ², Aboagye Kwarteng Dofuor ³, Faustus Akankperiwen Azerigyik ⁴,
Emmanuel Oluwabusola ⁵, Hai Deng ⁵, Marcel Jaspars ⁵ and Kwaku Kyeremeh ^{1,*}

¹ Marine and Plant Research Laboratory of Ghana, Department of Chemistry, School of Physical and Mathematical Sciences, University of Ghana, P.O. Box LG 56, Legon-Accra, Ghana; gilberttet@gmail.com (G.M.T.); kwainsamuel75@gmail.com (S.K.); tmensah012@st.ug.edu.gh (T.M.)

² Department of Bioengineering, Munzur University, 62000 Tunceli, Turkey; anilsazak@gmail.com (A.S.C.); mustafacamas@gmail.com (M.C.)

³ Department of Biochemistry, Cell and Molecular Biology, University of Ghana, P.O. Box LG 54, Legon-Accra, Ghana; akwartengdofuor@yahoo.com (A.K.D.)

⁴ Noguchi Memorial Institute for Medical Research (NMIMR), College of Health Sciences, University of Ghana, P.O. Box LG 581, Legon-Accra, Ghana; faustusazerigyik@gmail.com (F.A.A.)

⁵ Marine Biodiscovery Centre, Department of Chemistry, University of Aberdeen, Old Aberdeen, AB24 3UE, Scotland, UK; r01eto16@abdn.ac.uk (E.O.); h.deng@abdn.ac.uk (H.D.); m.jaspars@abdn.ac.uk (M.J.)

* Correspondence: kkyeremeh@ug.edu.gh; Tel.: +233-20-789-1320

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Figure S1. Semi-preparative HPLC Chromatogram of Paenidigyamycin G (**1**).

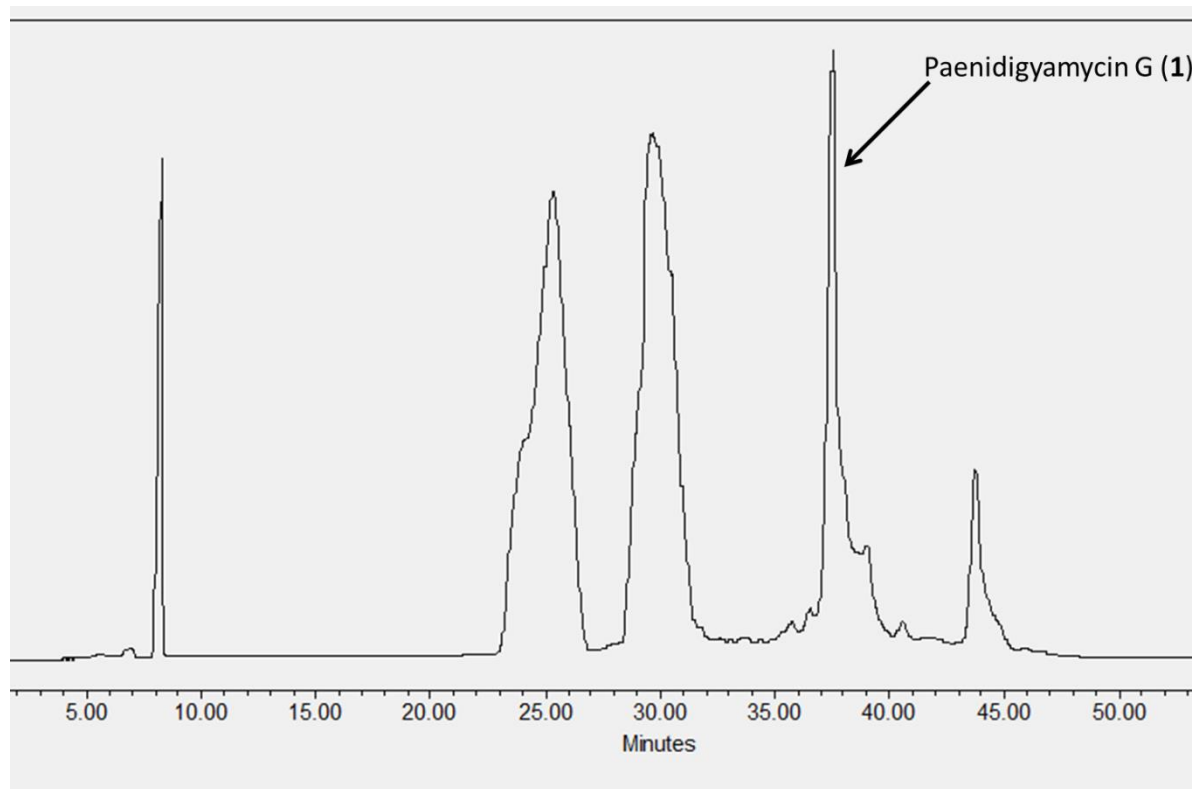


Figure S2. UV Profile of Paenidigyamycin G (**1**) extracted from the PDA during Semi-preparative HPLC.

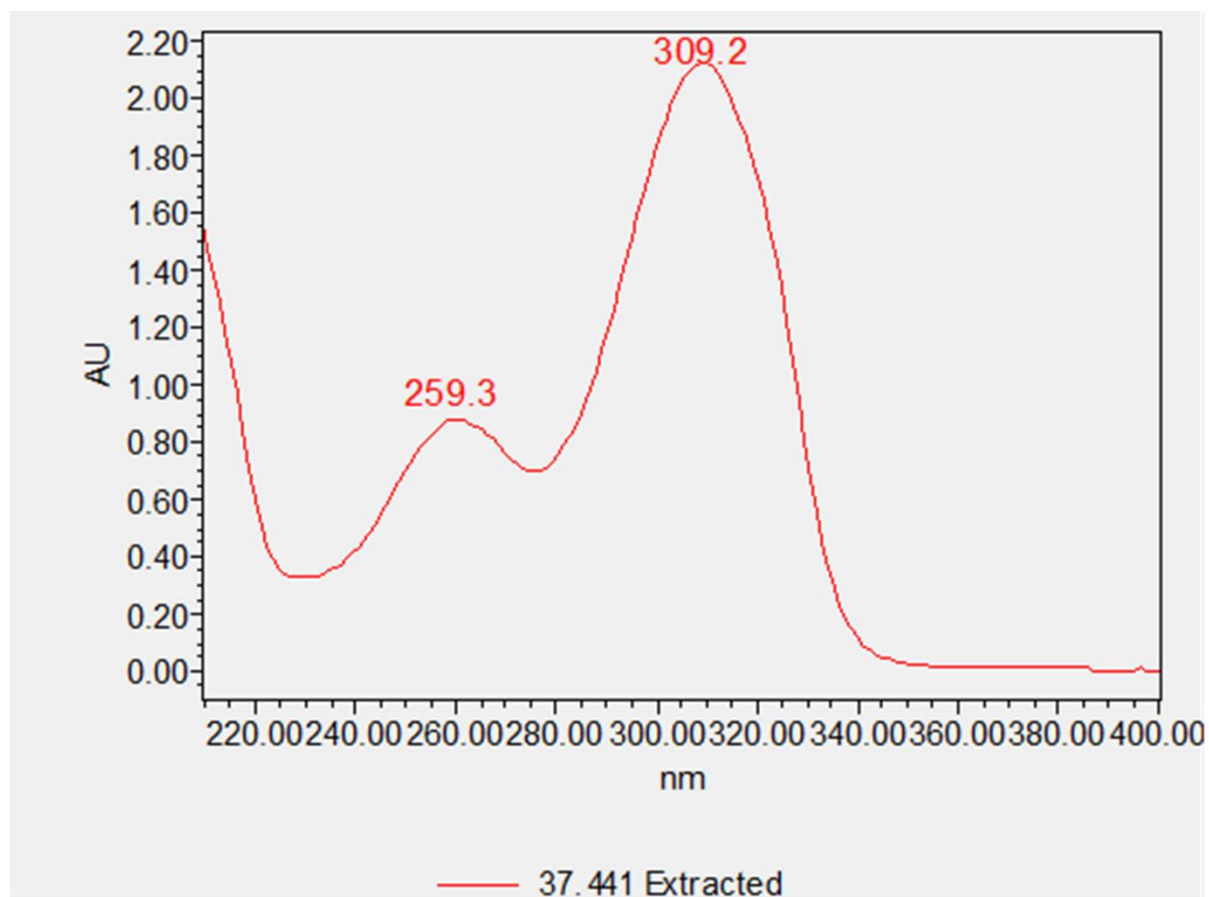


Figure S3. HRESI-LC-MS Chromatogram of pure Paenidigyamycin G (1) with plausible Structures for Fragment Ions.

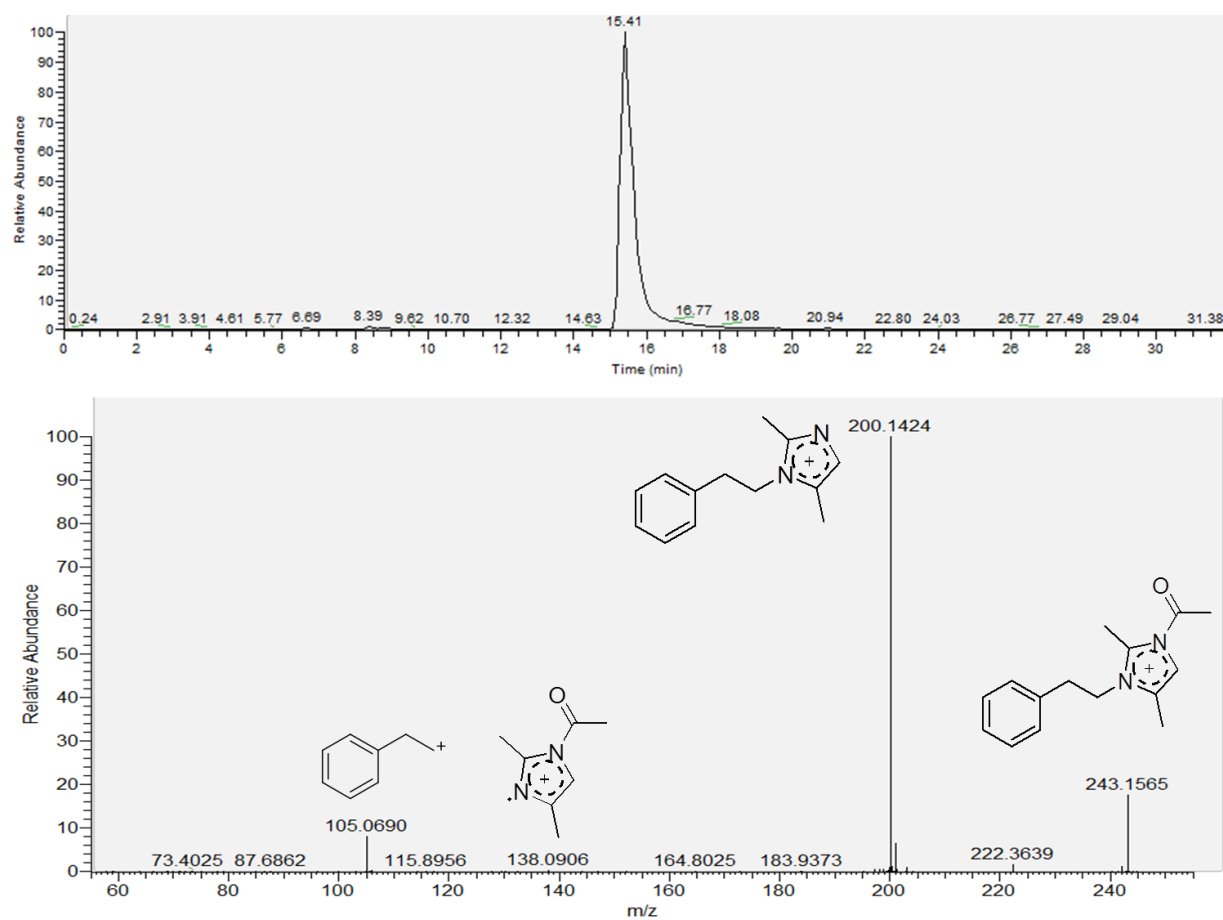


Figure S4. ^{13}C -NMR Spectrum of Paenidigyamycin G (**1**) in CD_3OD .

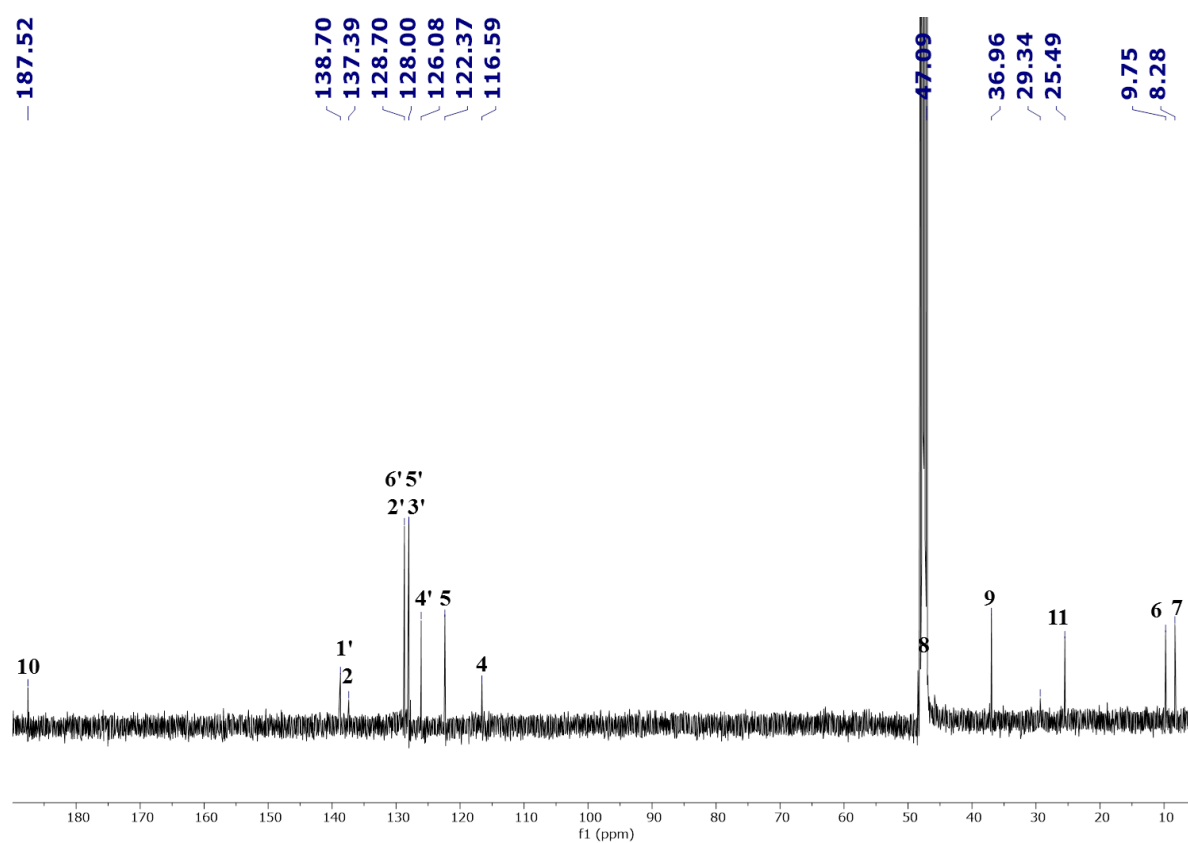


Figure S5. DEPT¹³⁵ Spectrum of Paenidigyamycin G (**1**) in CD₃OD.

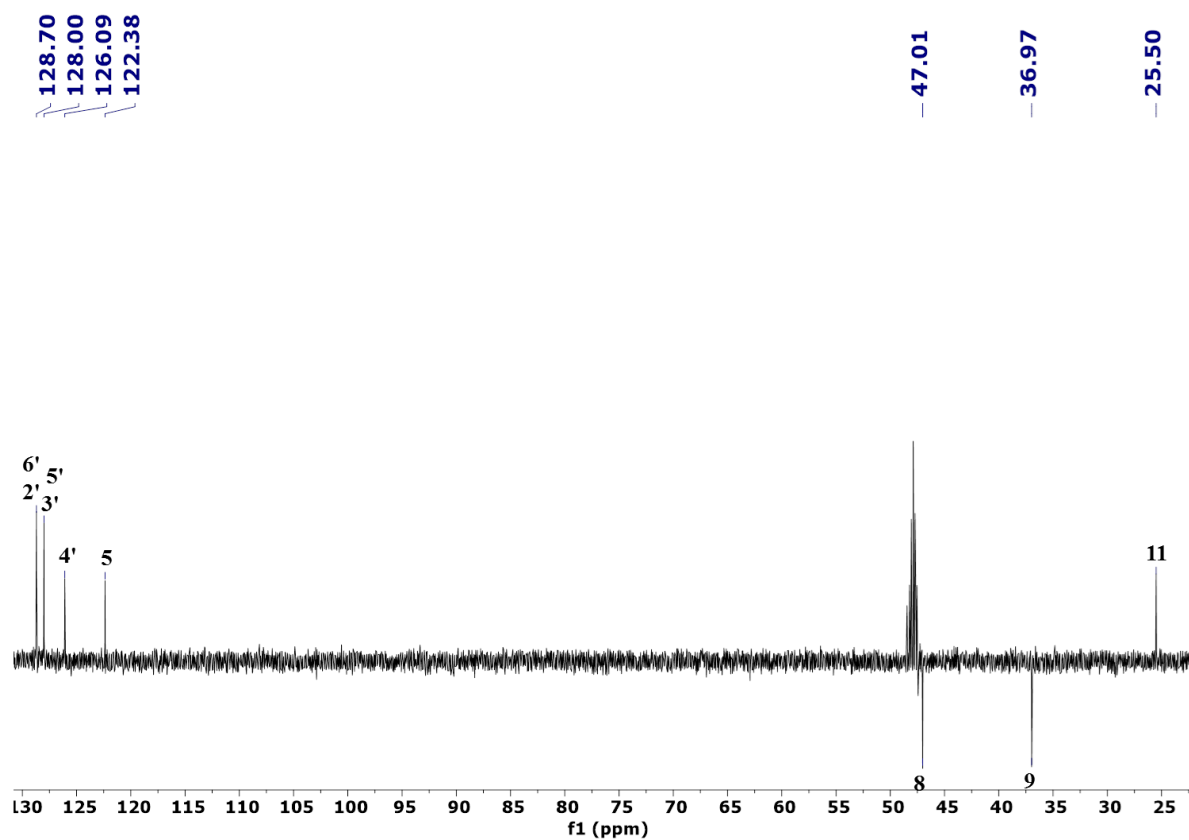


Figure S6. ^1H -NMR Spectrum of Paenidigamycin G (**1**) in CD_3OD .

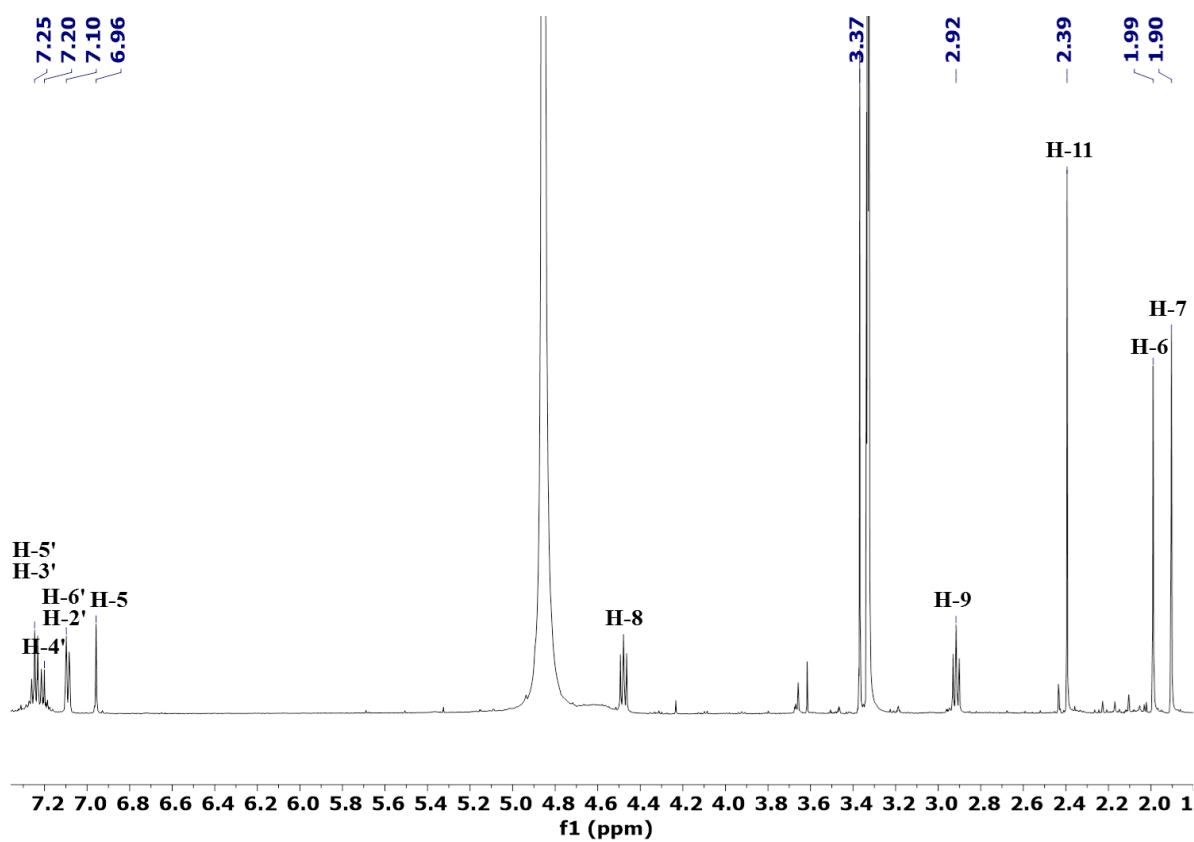


Figure S7. HSQC Spectrum of Paenidigymycin G (**1**) in CD₃OD.

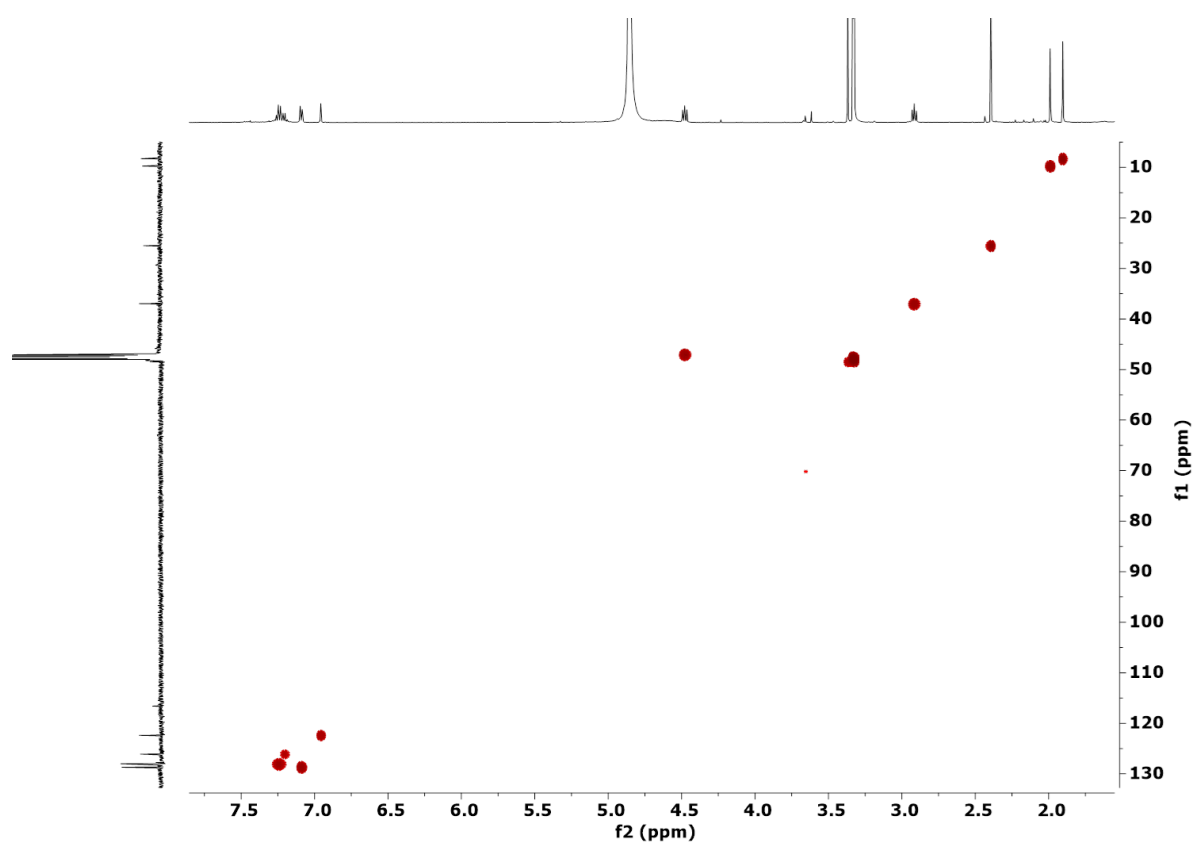


Figure S8. COSY Spectrum of Paenidigyamycin G (**1**) in CD₃OD.

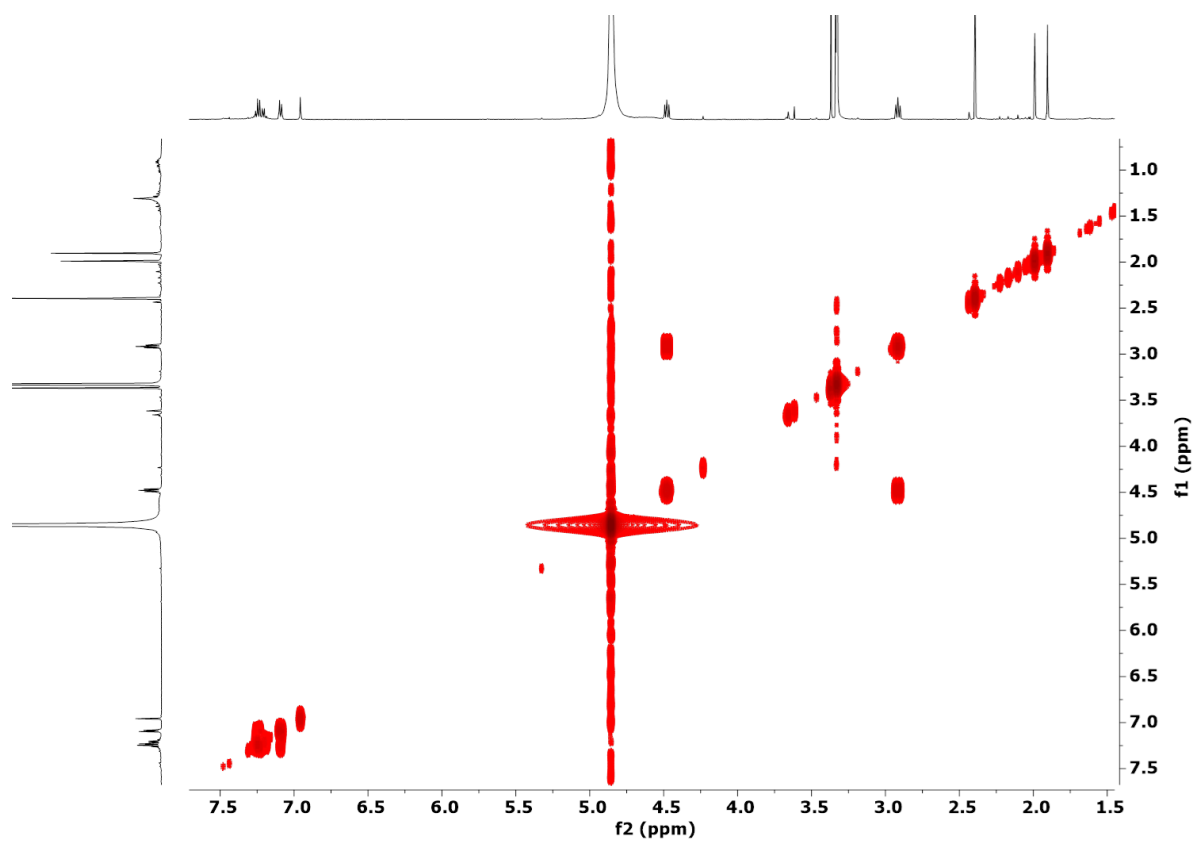


Figure S9. HMBC Spectrum of Paenidigyamycin G (**1**) in CD₃OD.

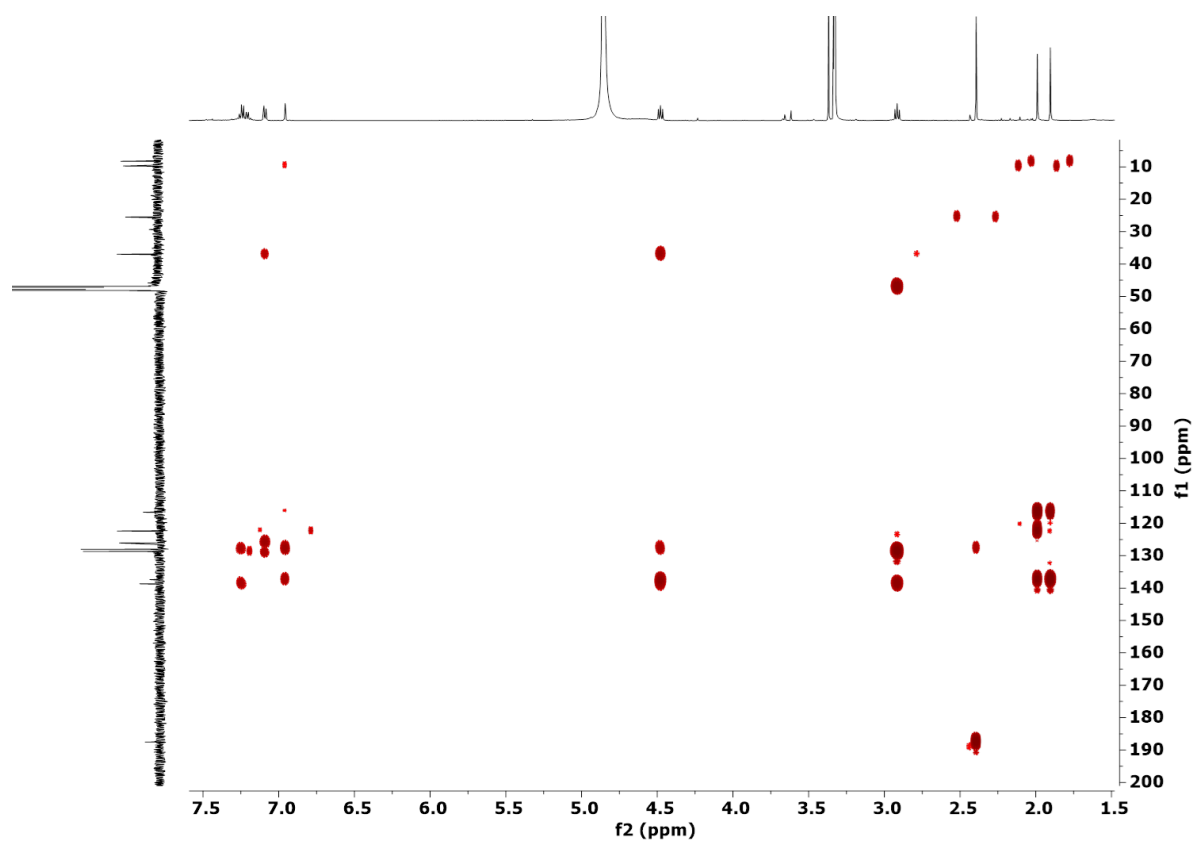


Figure S10. TOCSY Spectrum of Paenidigamycin G (**1**) in CD₃OD.

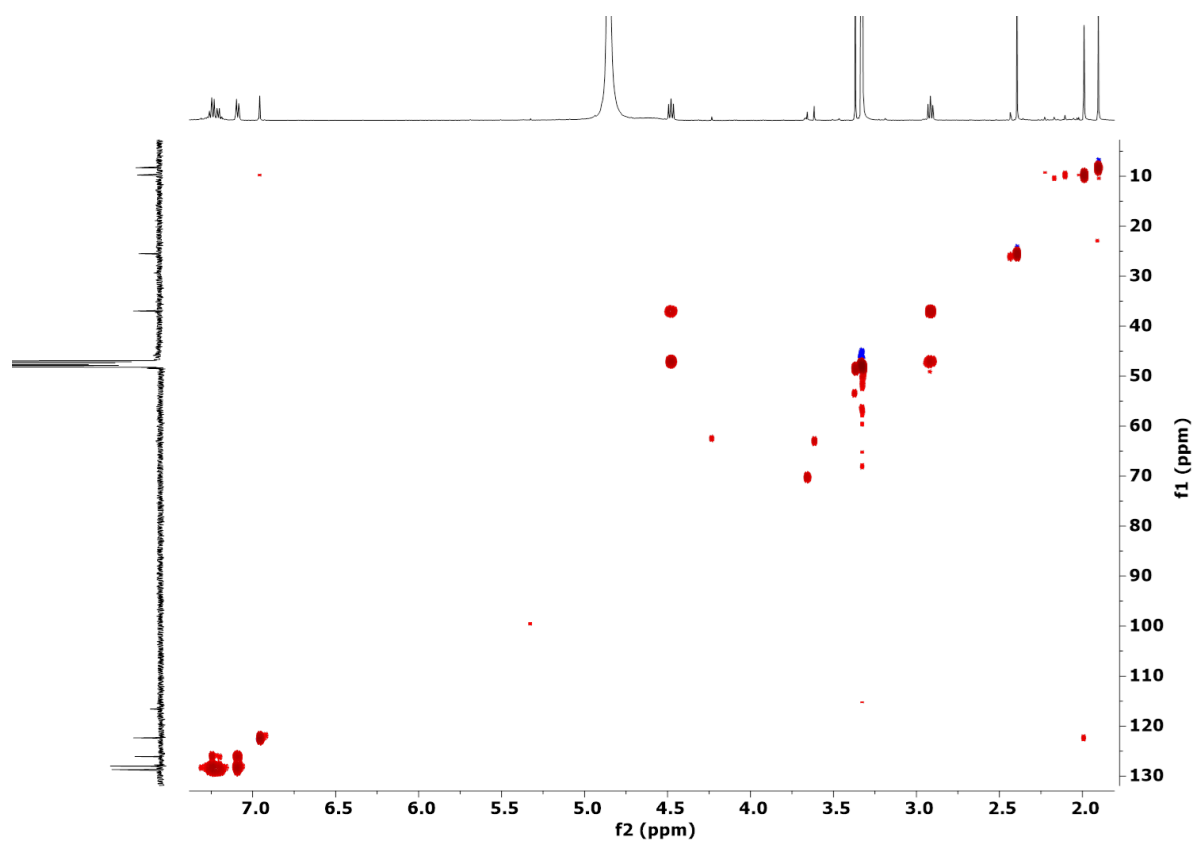


Figure S11. T-ROESY Spectrum of Paenidigamycin G (**1**) in CD₃OD.

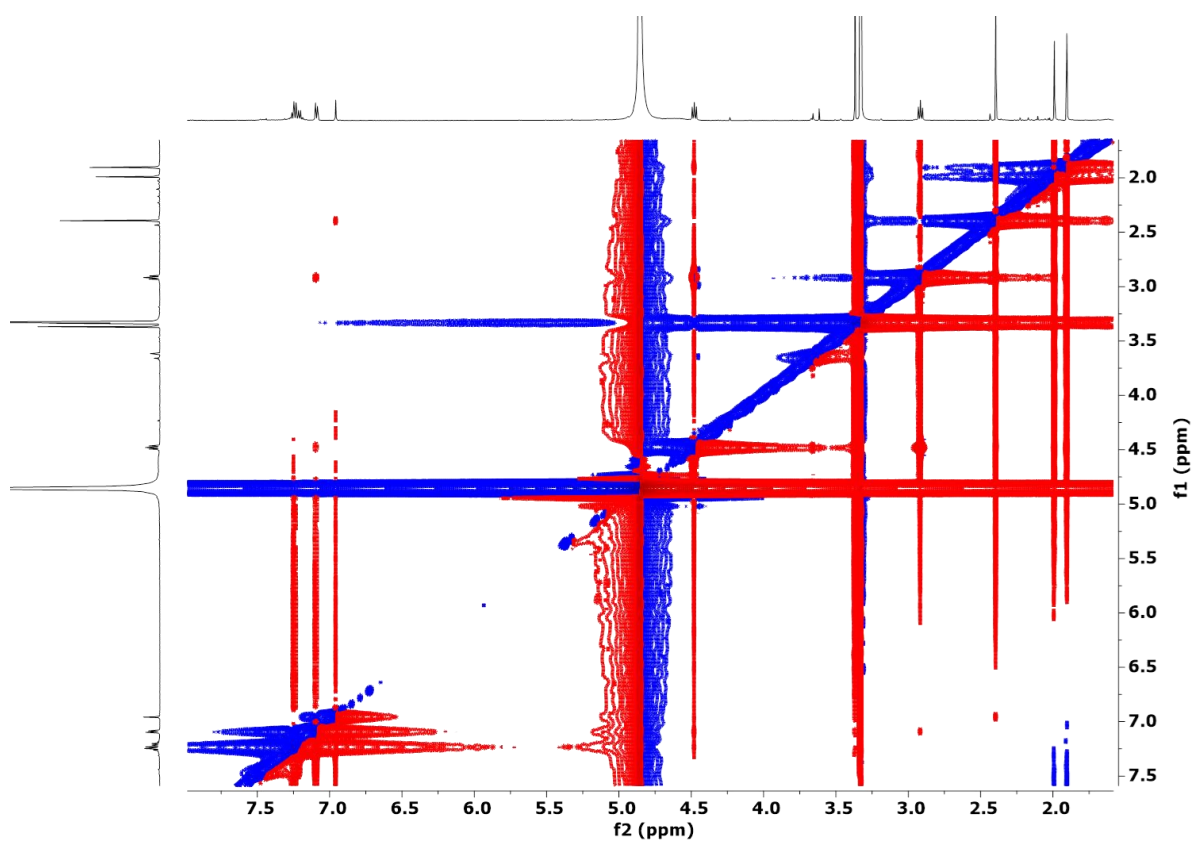
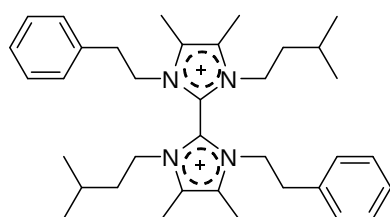
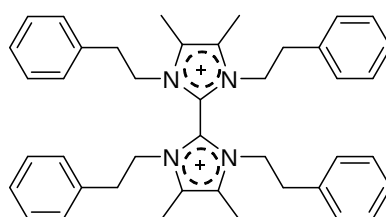


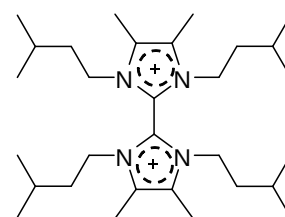
Figure S12. Structures of the Paenidigyamycins; Imidazole-based Alkaloids produced by *Paenibacillus* sp. Strain DE2SH.



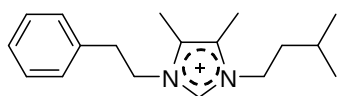
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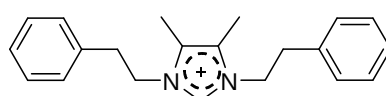
Paenidigyamycin B



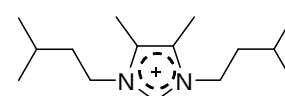
Paenidigyamycin C



Paenidigyamycin D



Paenidigyamycin E



Paenidigyamycin F