Supporting information

Synthesis of cationic *N*-acylated thiazolidine for selective activity against Gram-positive bacteria, and evaluation of *N*-acylation's role in membrane-disrupting activity

Aleena Pious[a], Vignesh Venkatasubramanian[a], Dharshini Karnan Singaravelu[a], Subburethinam Ramesh[a], Fuad Ameen[b], Anbazhagan Veerappan[a]*

[a]School of Chemical & Biotechnology, SASTRA Deemed University, Thanjavur – 613401, Tamil Nadu, India.

[b]Department of Botany and Microbiology, College of Science, King Saud University, Riyadh 11451, Saudi Arabia

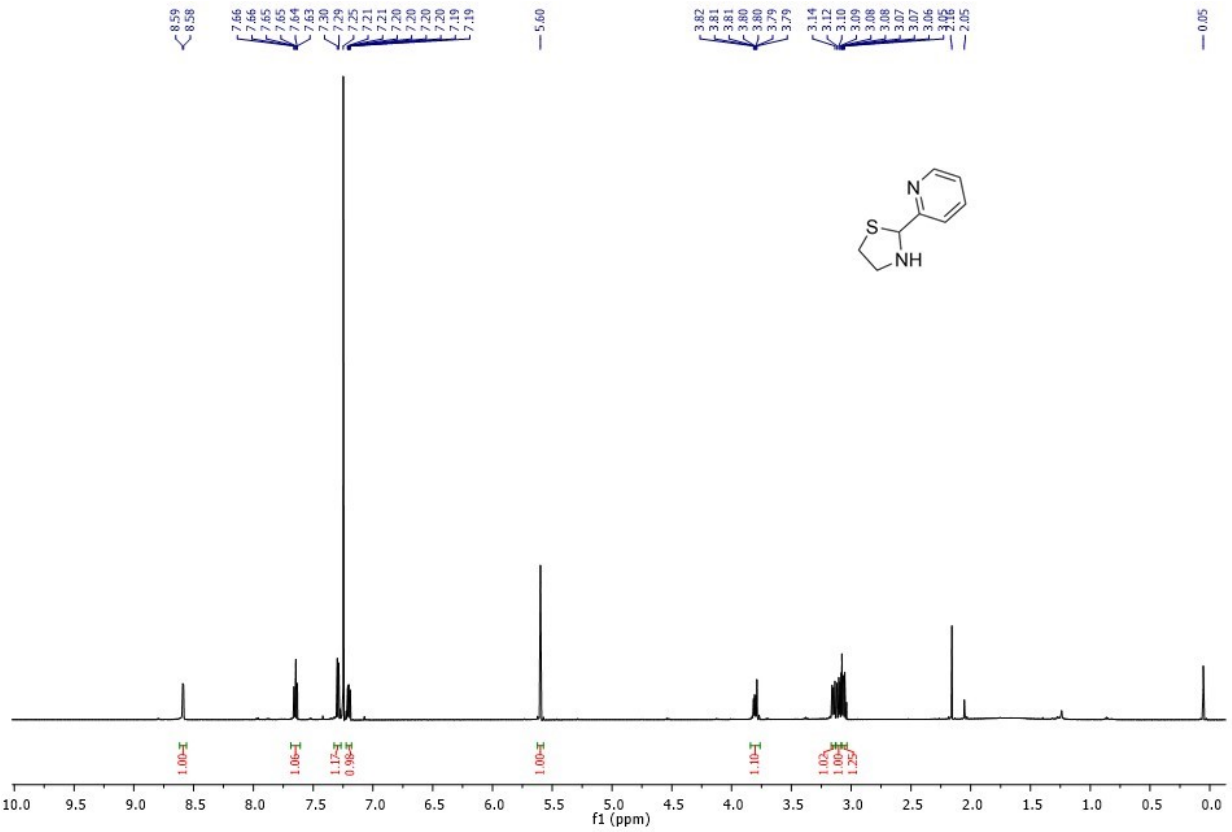

Fig. S1A: **^{1}H NMR of 2-(pyridine-2-yl)thiazolidine**

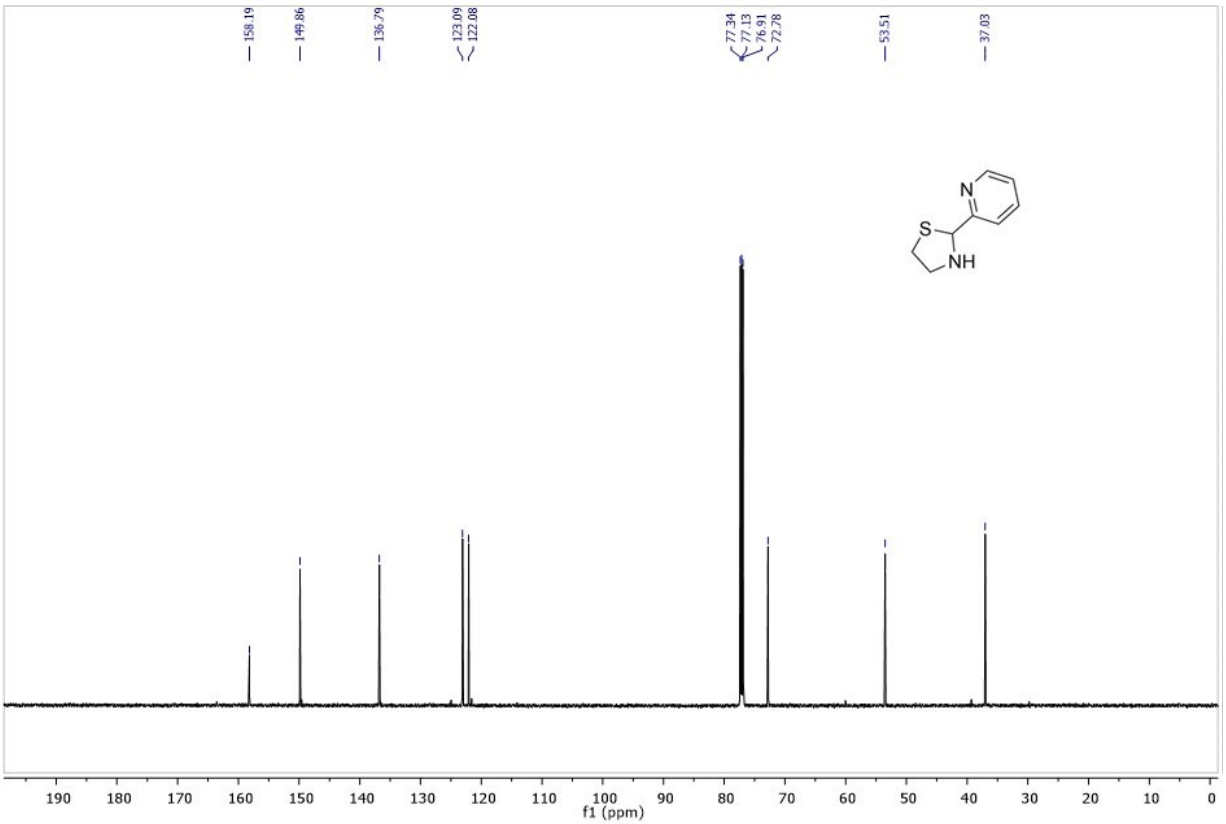

Fig. S1B: **^{13}C NMR of 2-(pyridine-2-yl)thiazolidine**

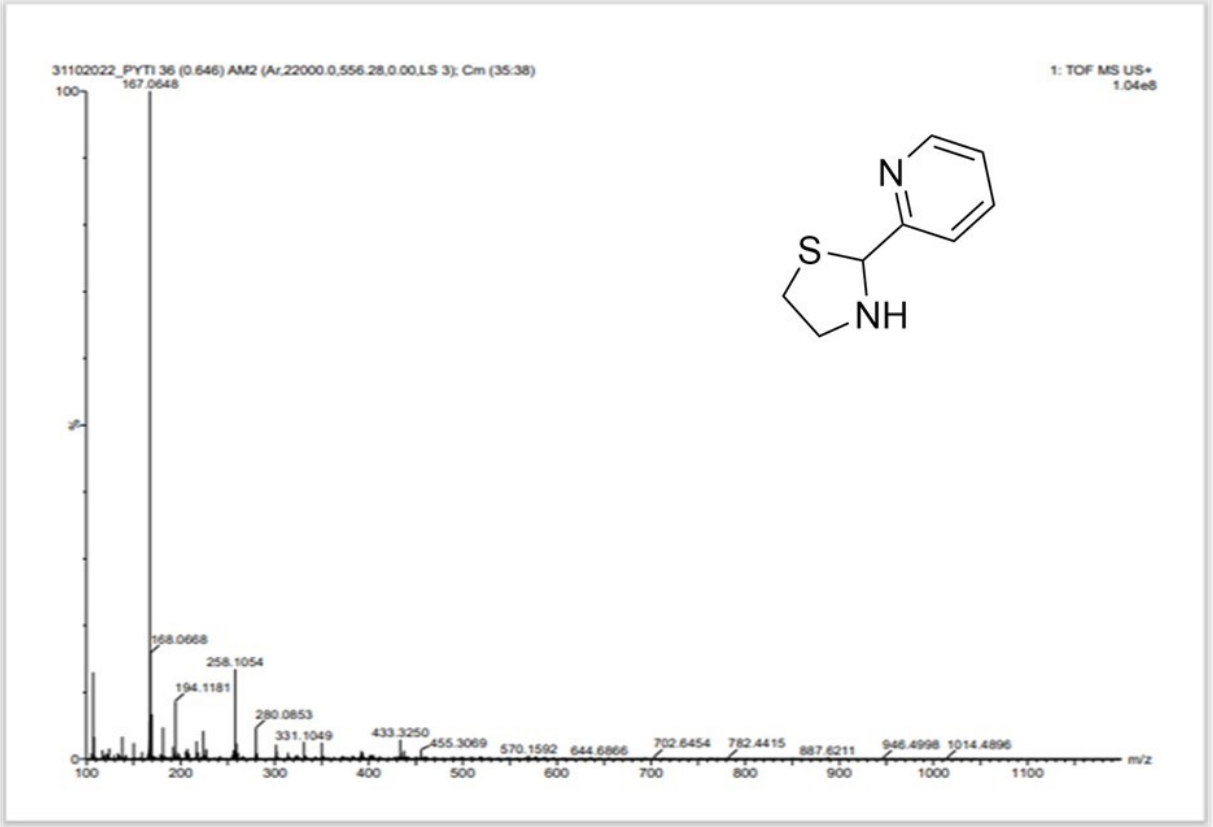

Fig. S1C: **HRMS of 2-(pyridine-2-yl)thiazolidine**

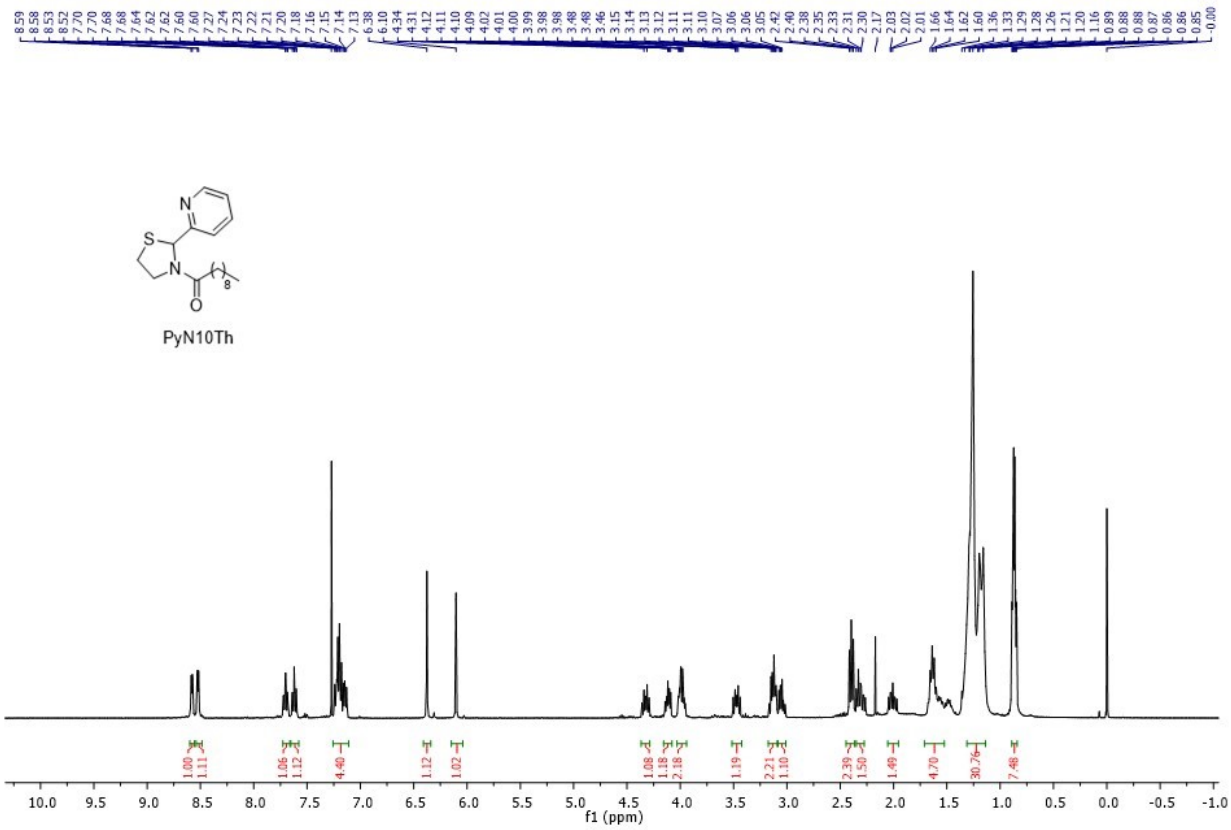

Fig. S2A: **^{1}H NMR of PyN10Th**

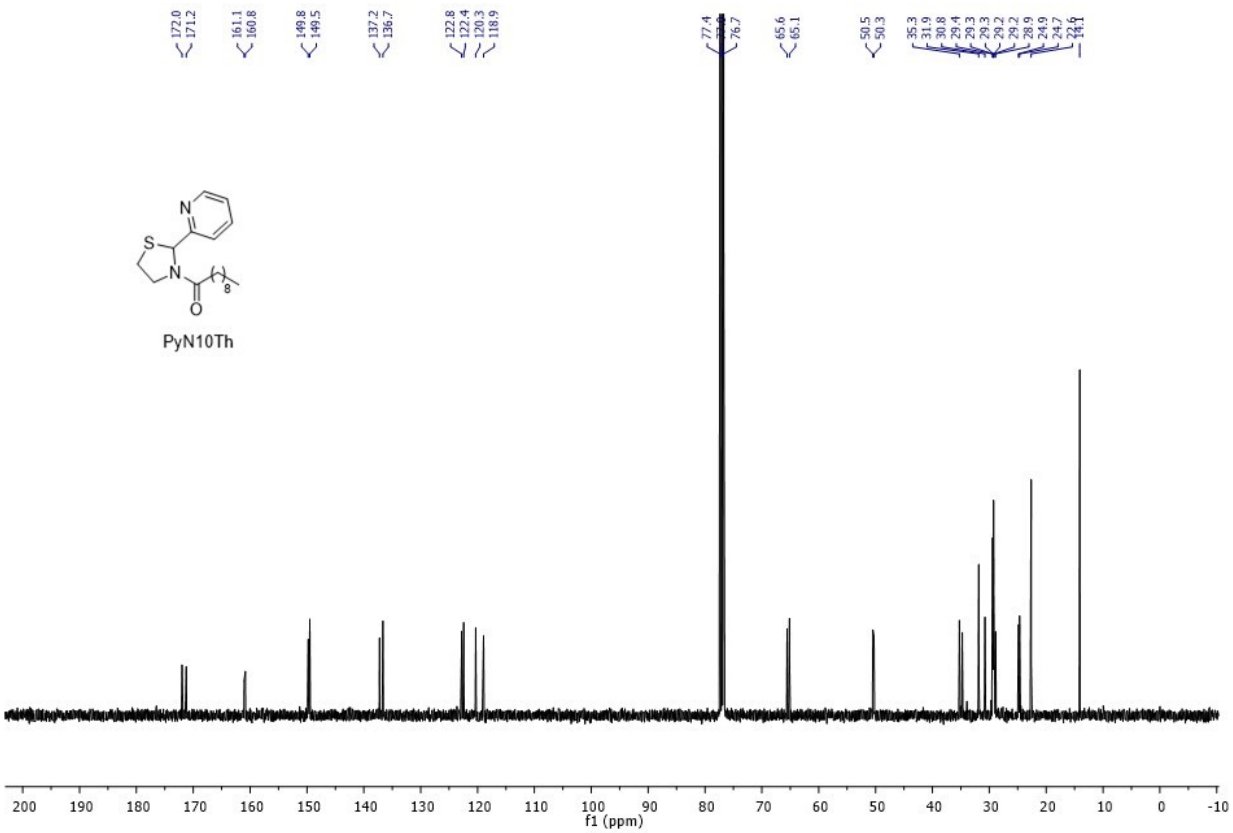

Fig. S2B: **^{13}C NMR of PyN10Th**

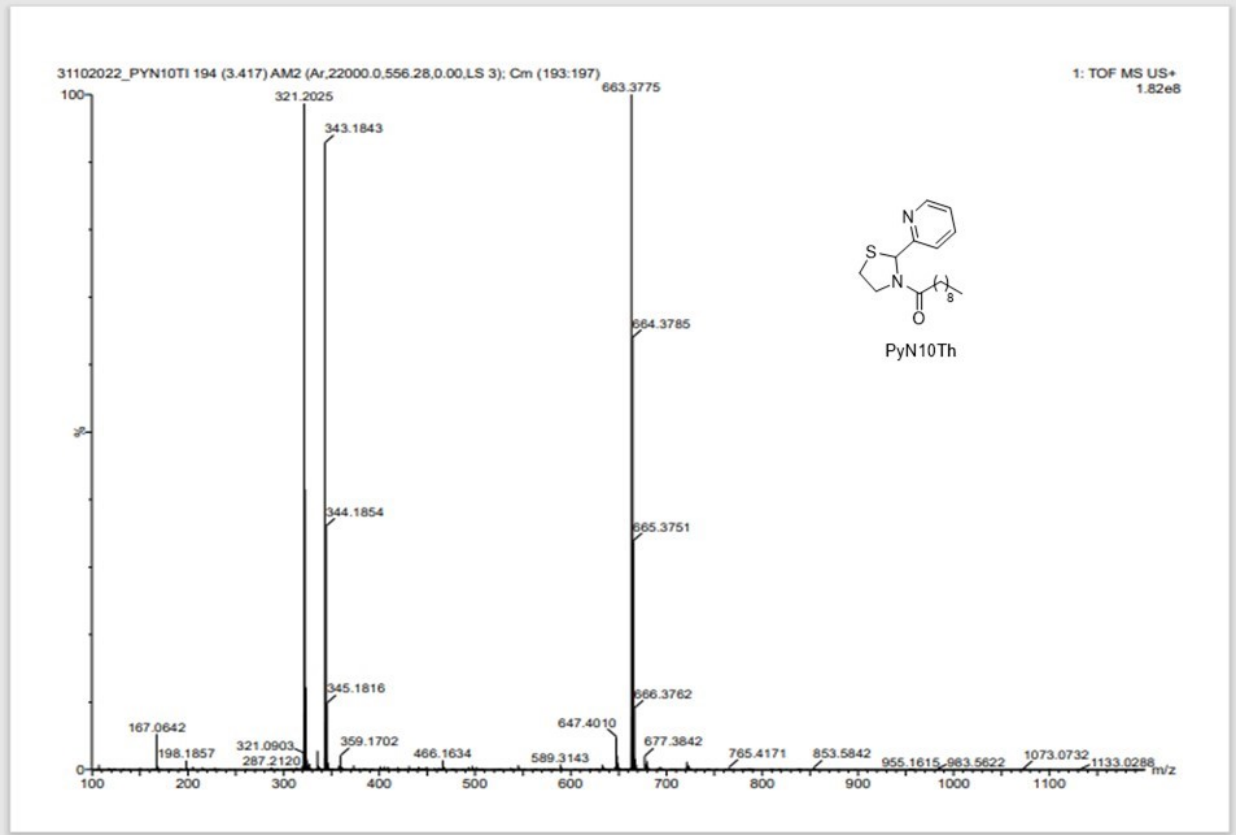

Fig. S2C: **HRMS of PyN10Th**

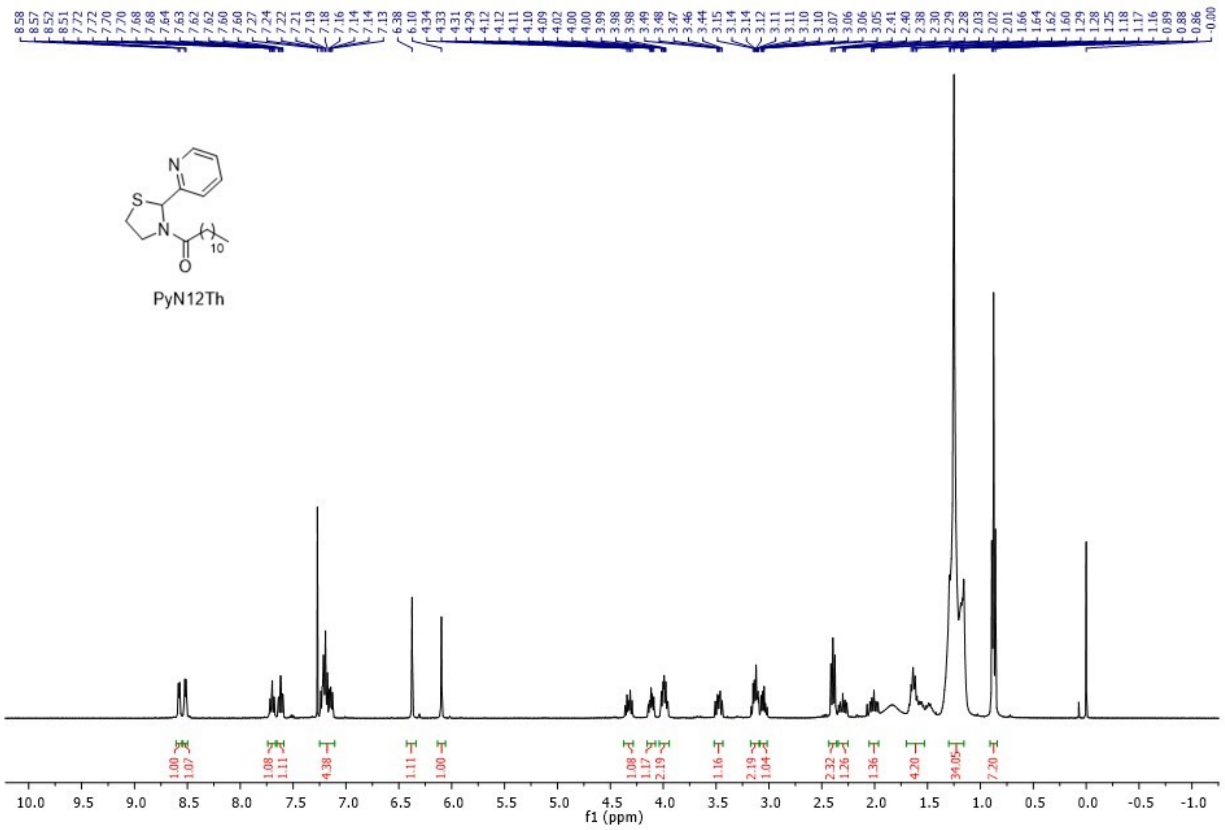

Fig. S3A: **^{1}H NMR of PyN12Th**

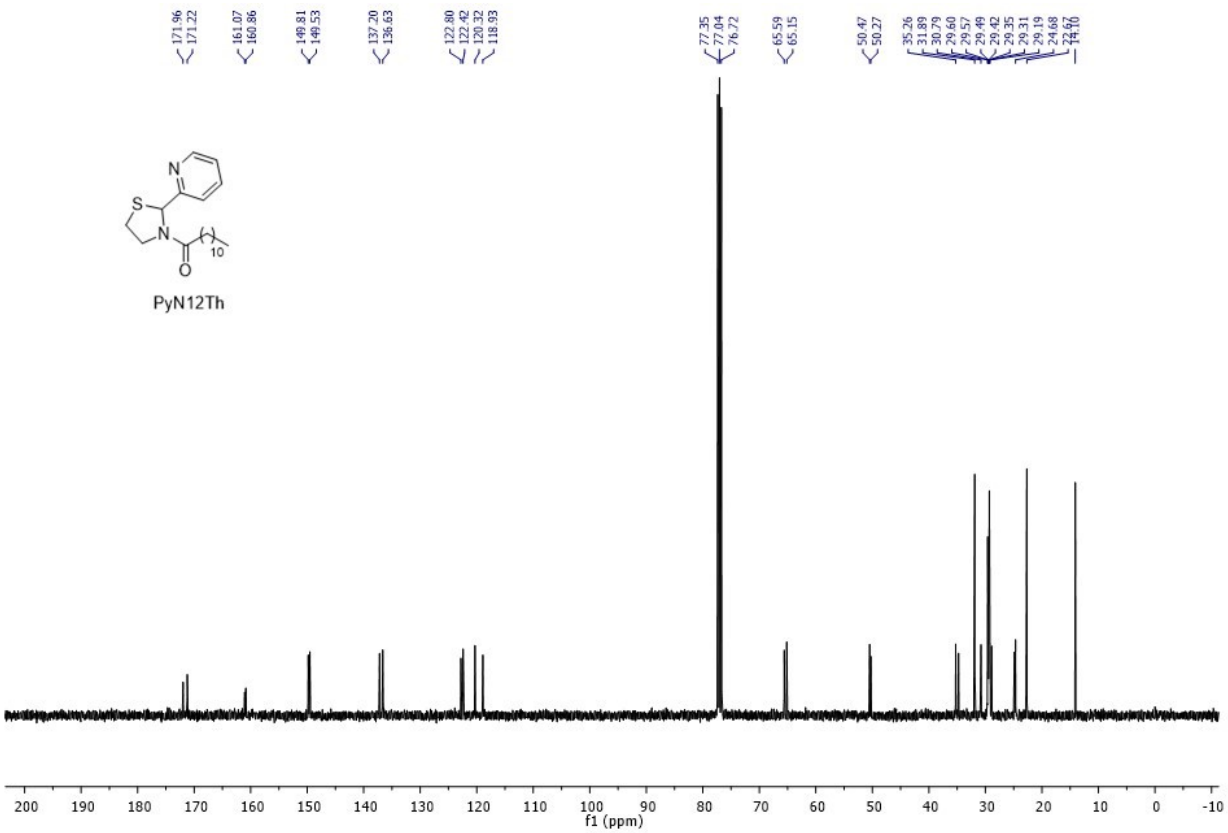

Fig. S3B: **^{13}C NMR of PyN12Th**

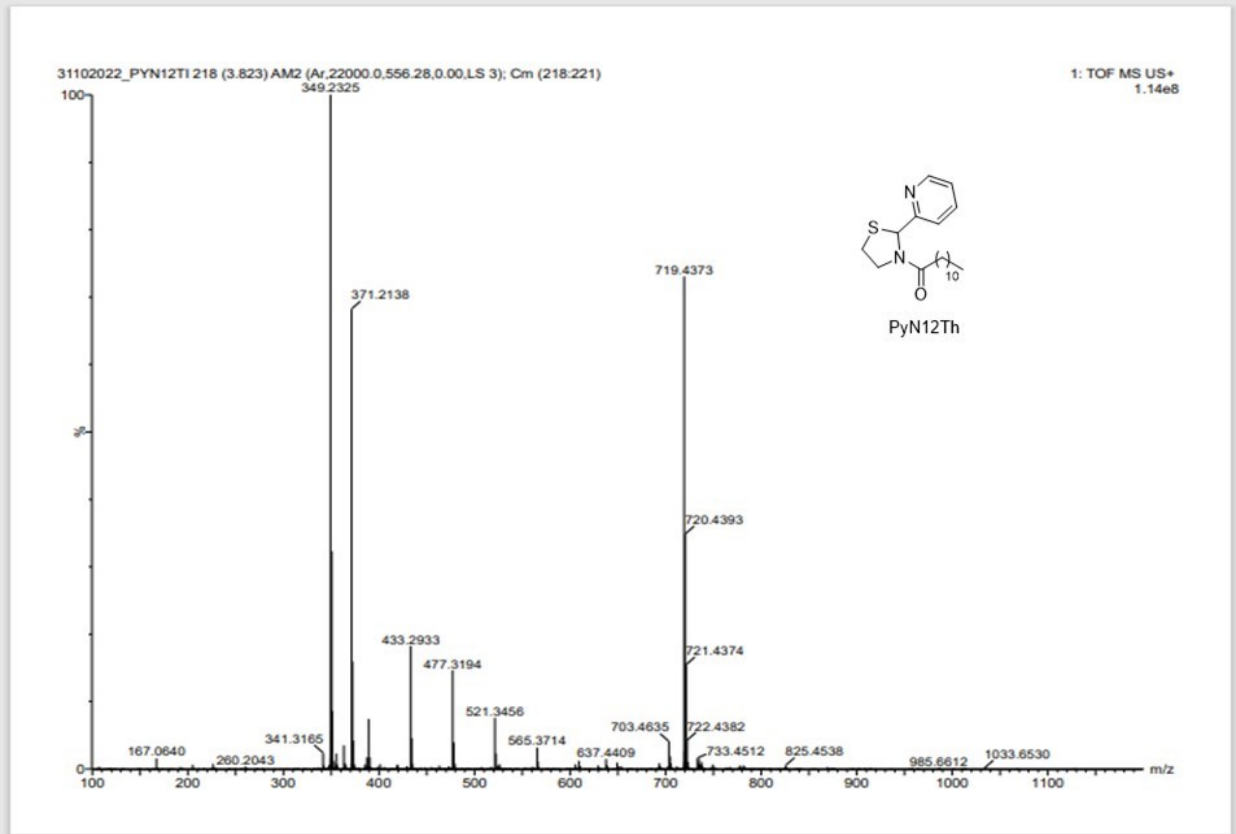

Fig. S3C: **HRMS of PyN12Th**

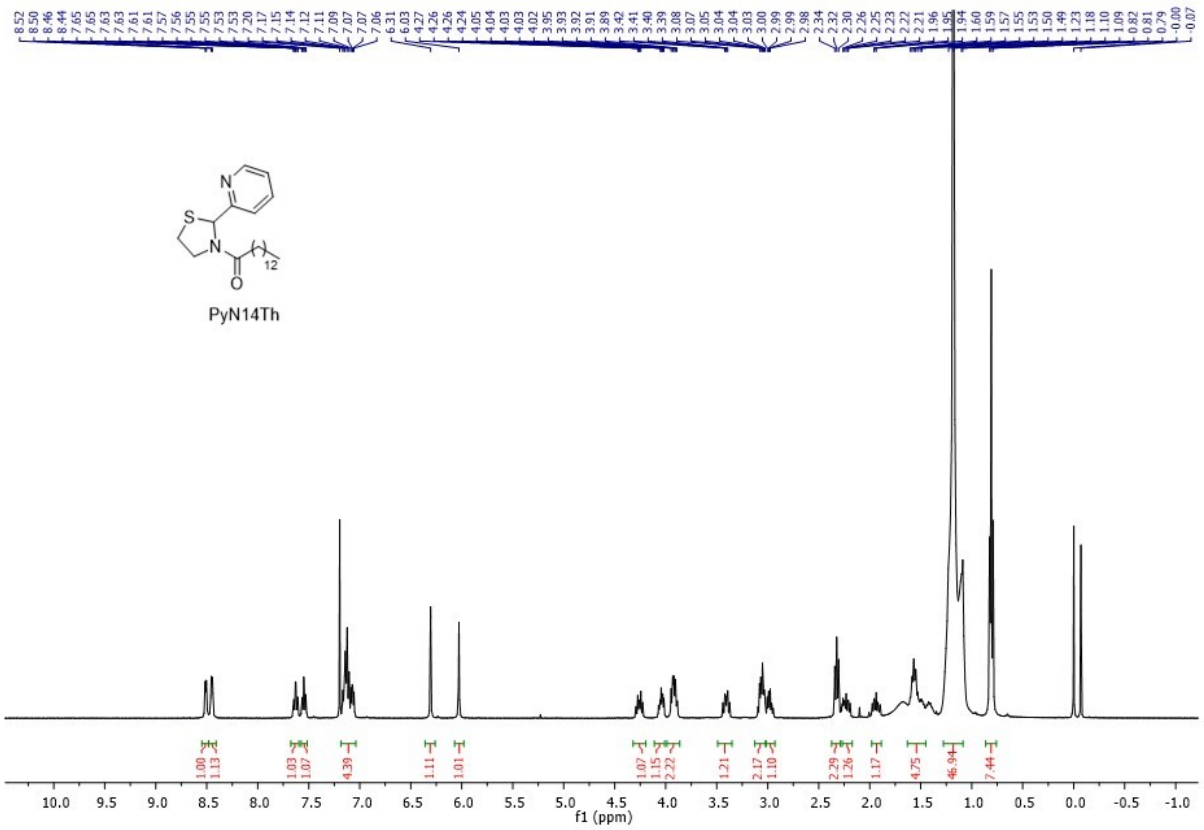

Fig. S4A: **^{1}H NMR of PyN14Th**

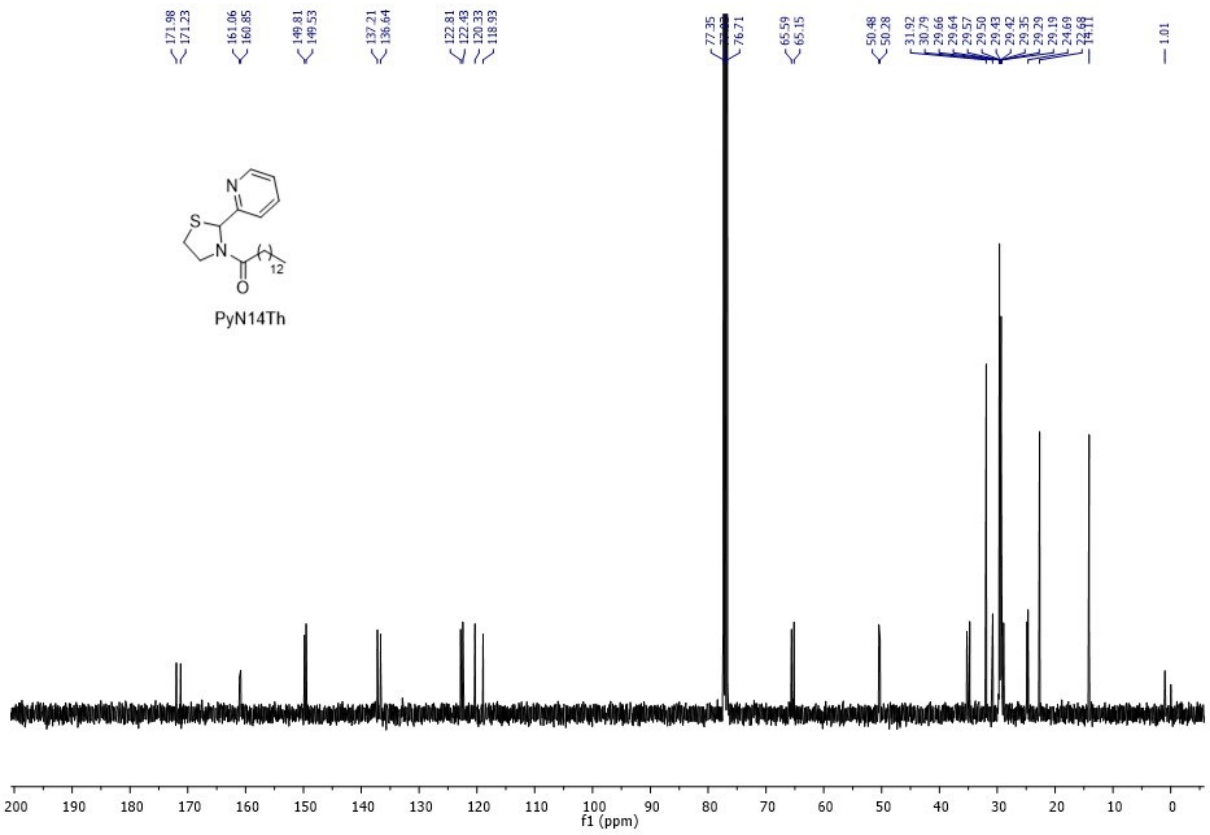

Fig. S4B: **^{13}C NMR of PyN14Th**

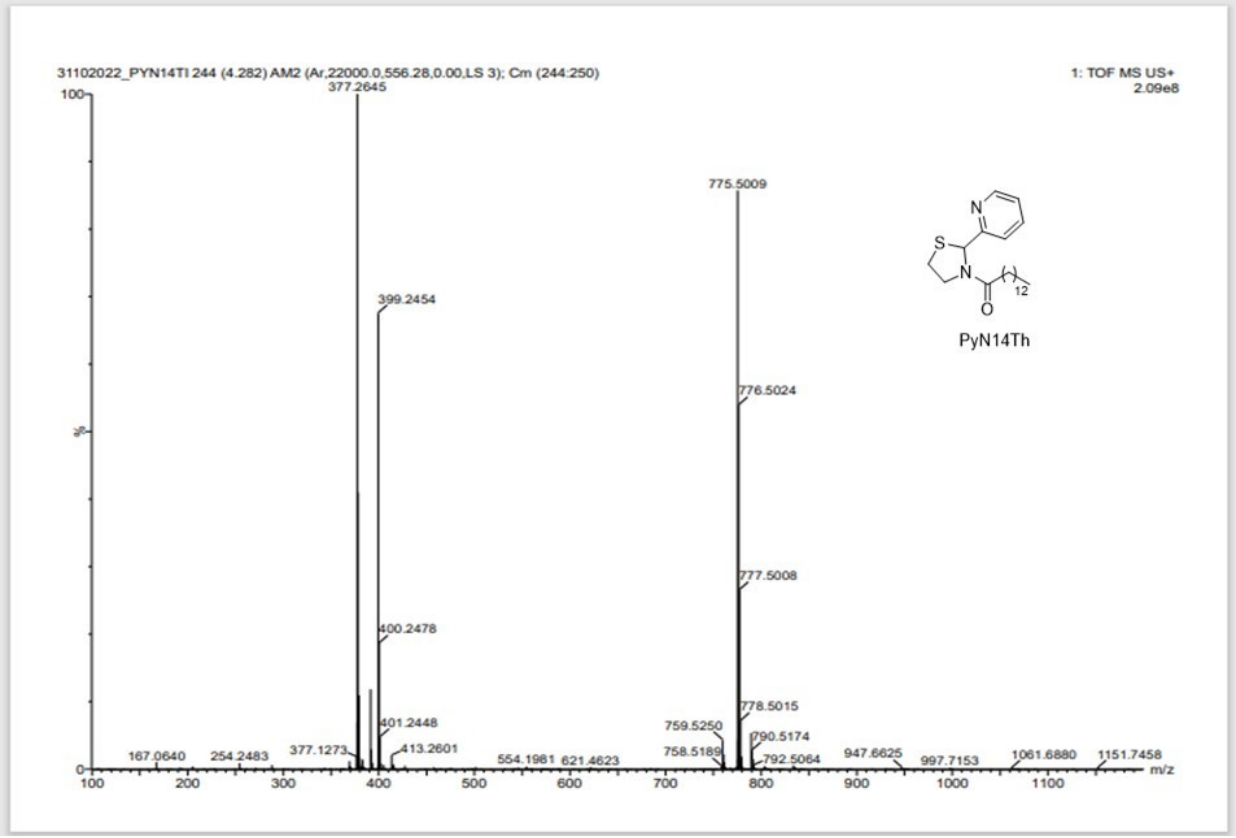

Fig. S4C: **HRMS of PyN14Th**

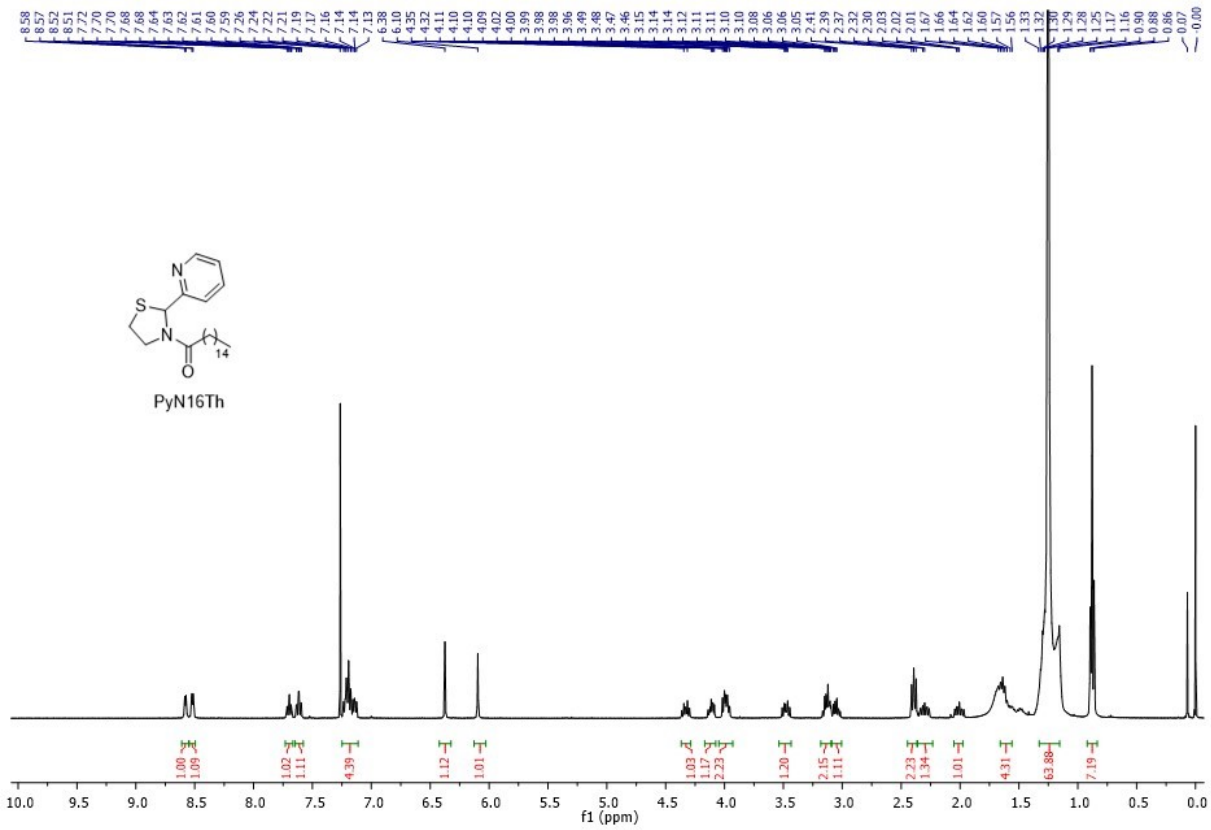

Fig. S5A: **^{1}H NMR of PyN16Th**

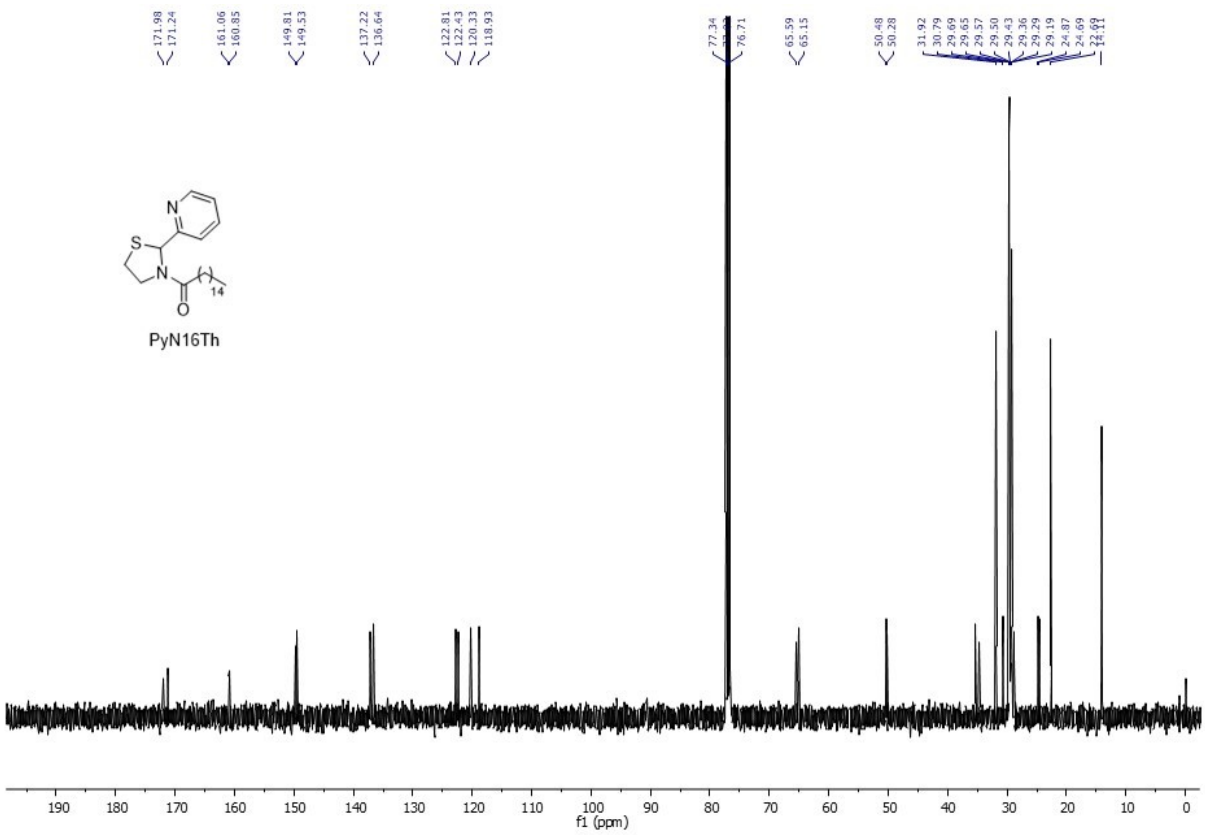

Fig. S5B: **^{13}C NMR of PyN16Th**

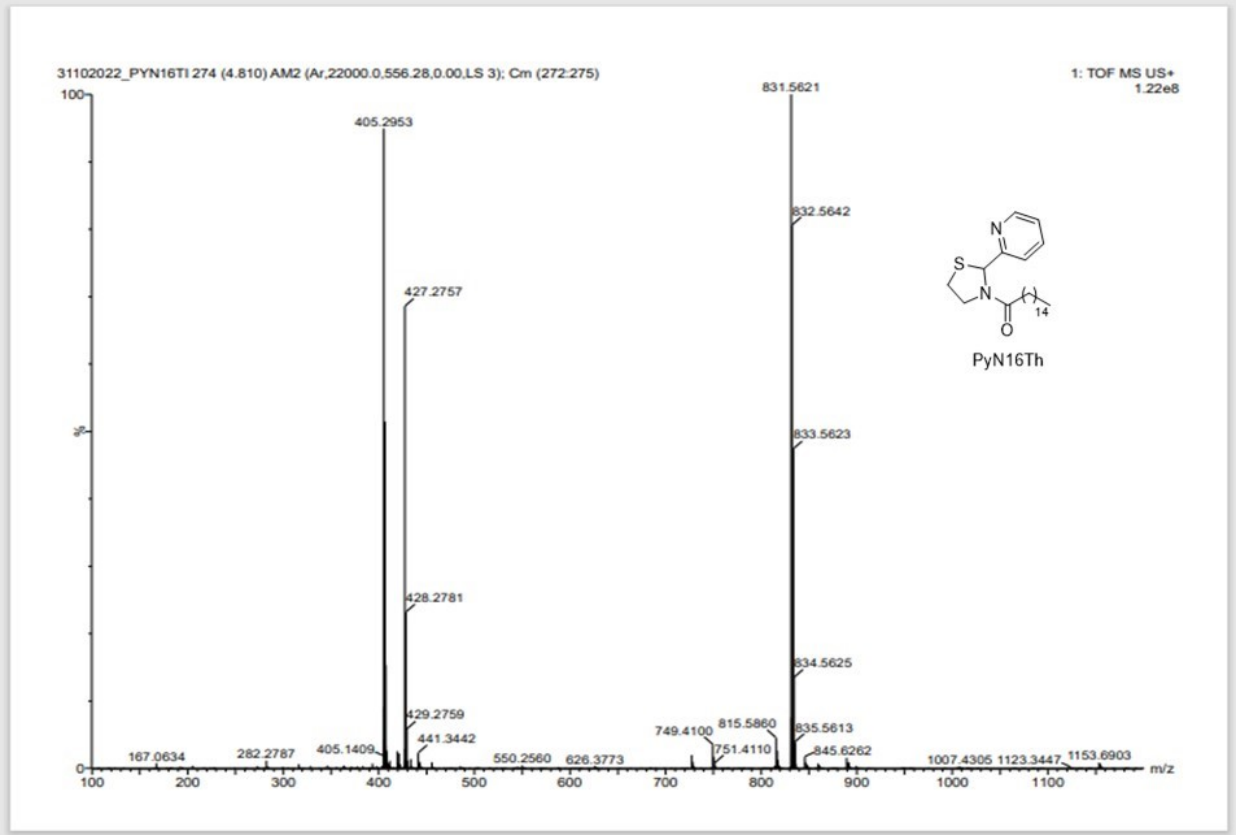

Fig. S5C: **HRMS of PyN16Th**

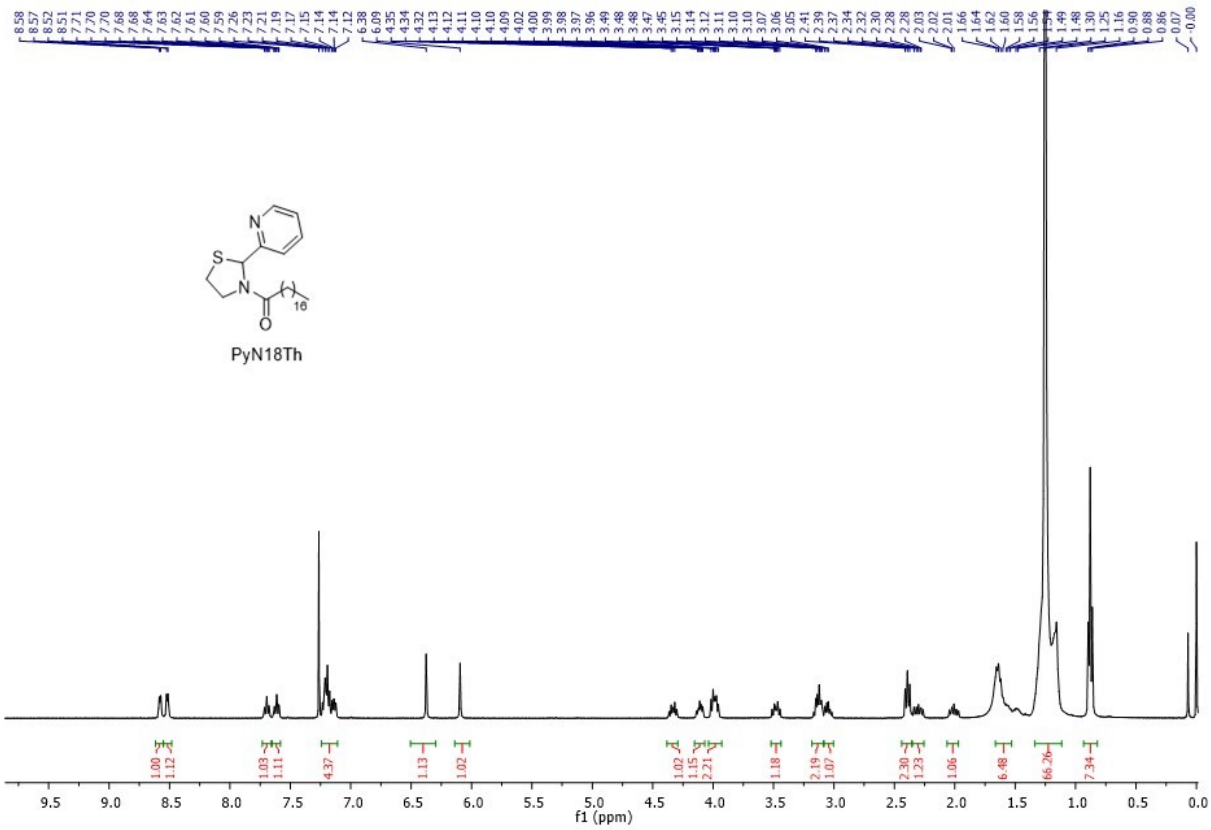

Fig. S6A: **^{1}H NMR of PyN18Th**

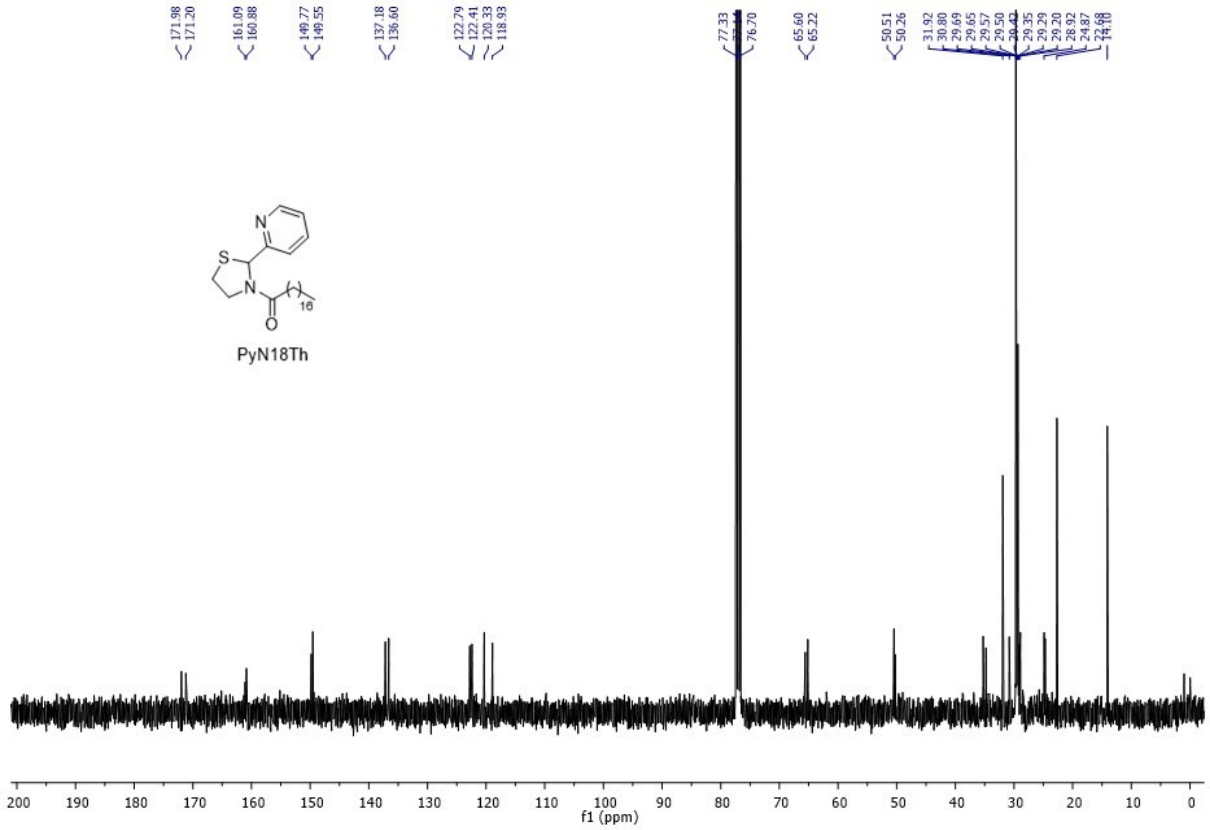

Fig. S6B: **^{13}C NMR of PyN18Th**

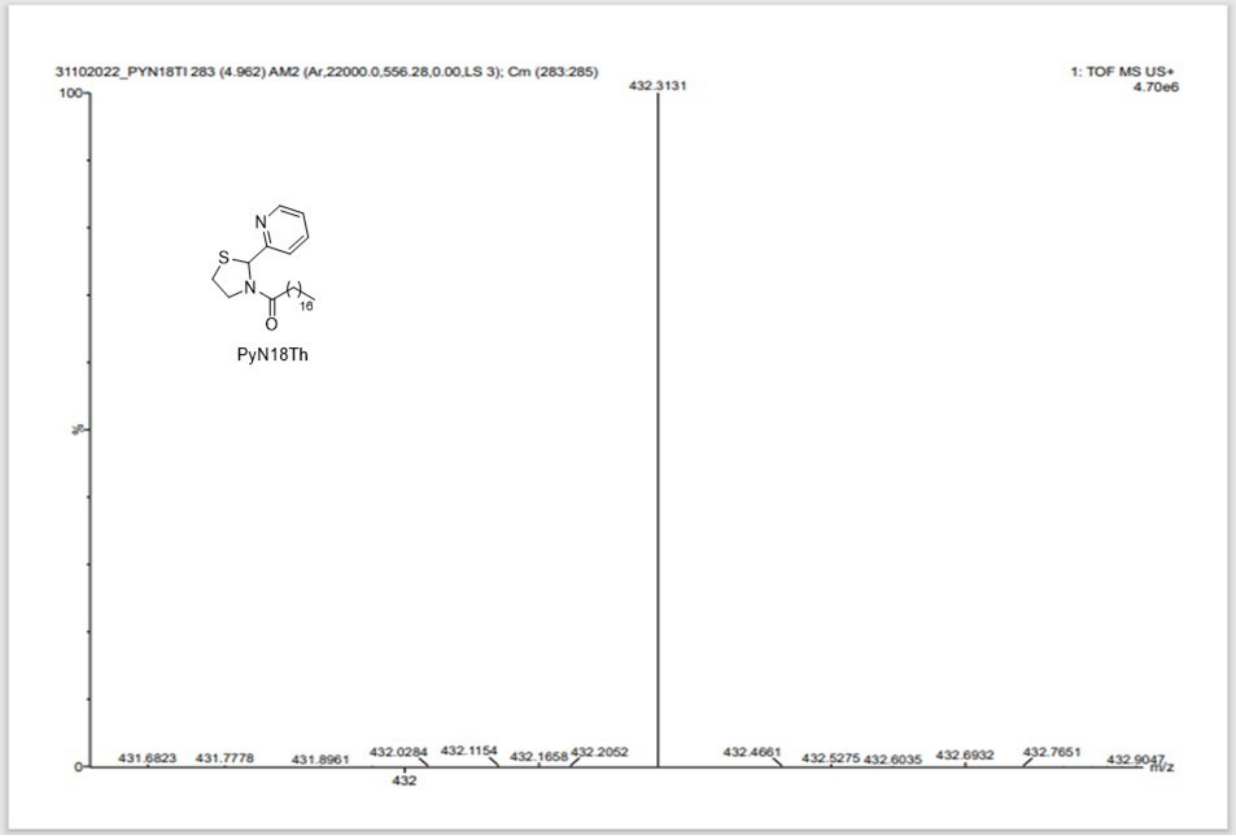

Fig. S6C: **HRMS of PyN18Th**

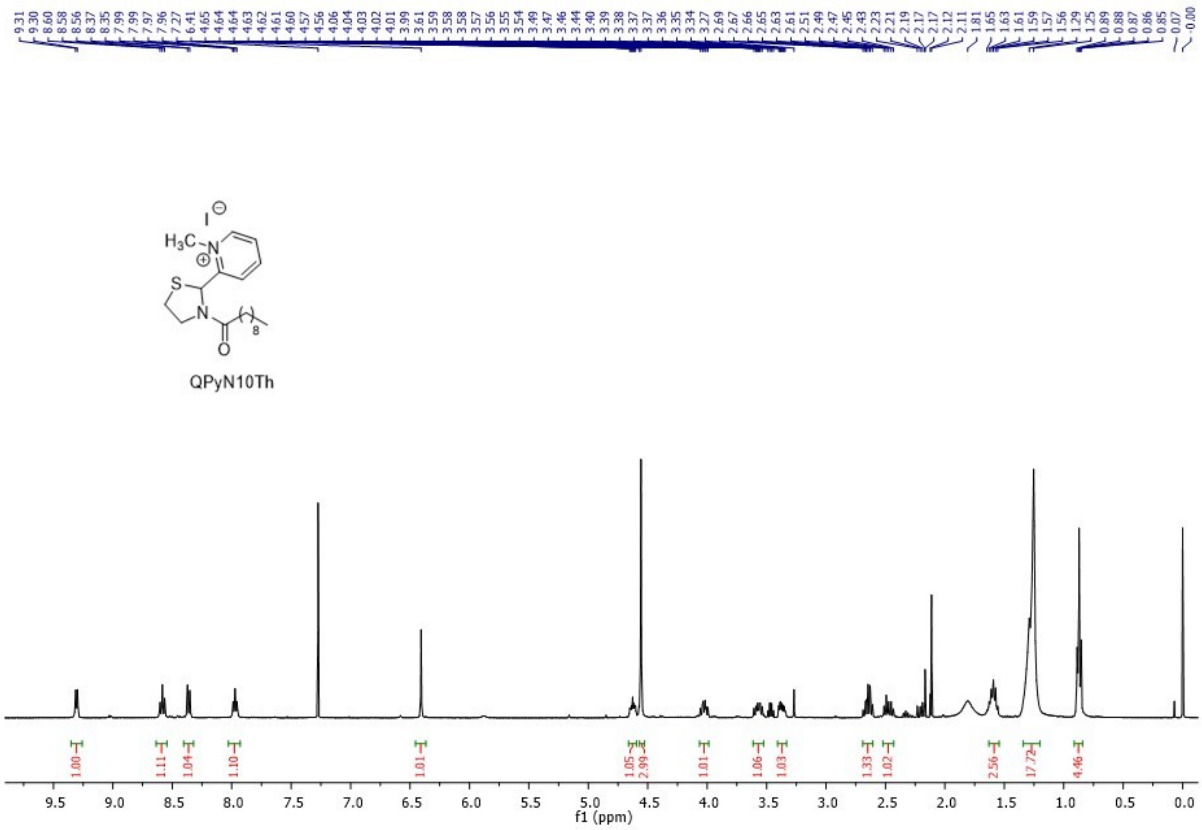

Fig. S7A: **^{1}H NMR of QPyN10Th**

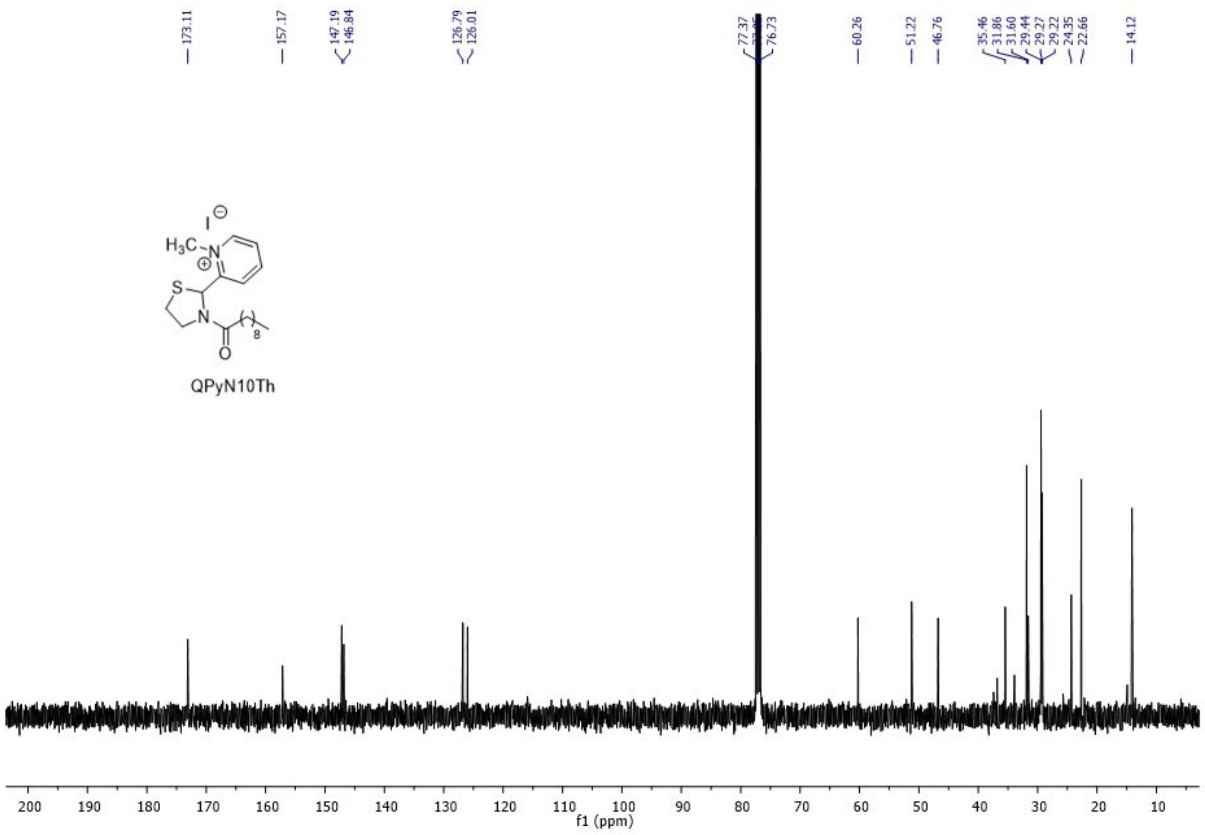

Fig. S7B: **^{13}C NMR of QPyN10Th**

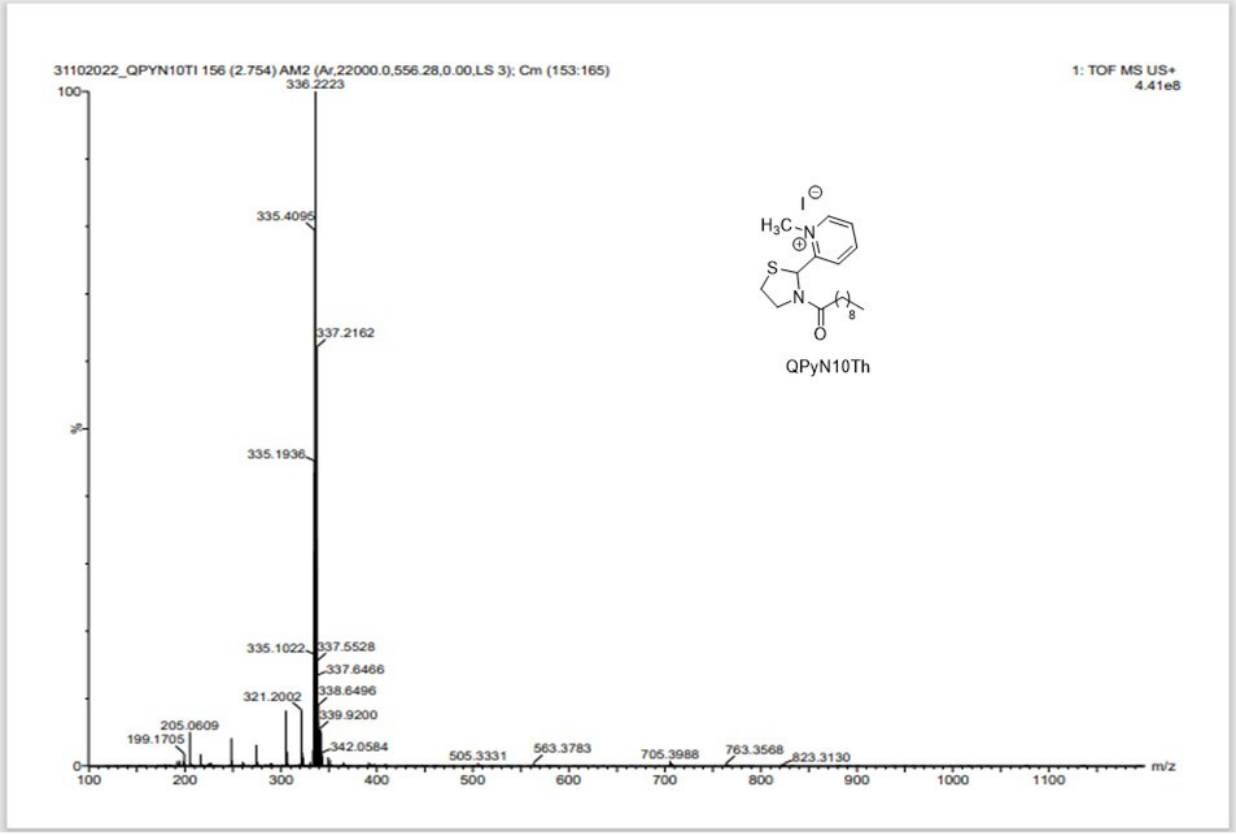

Fig. S7C: **HRMS of QPyN10Th**

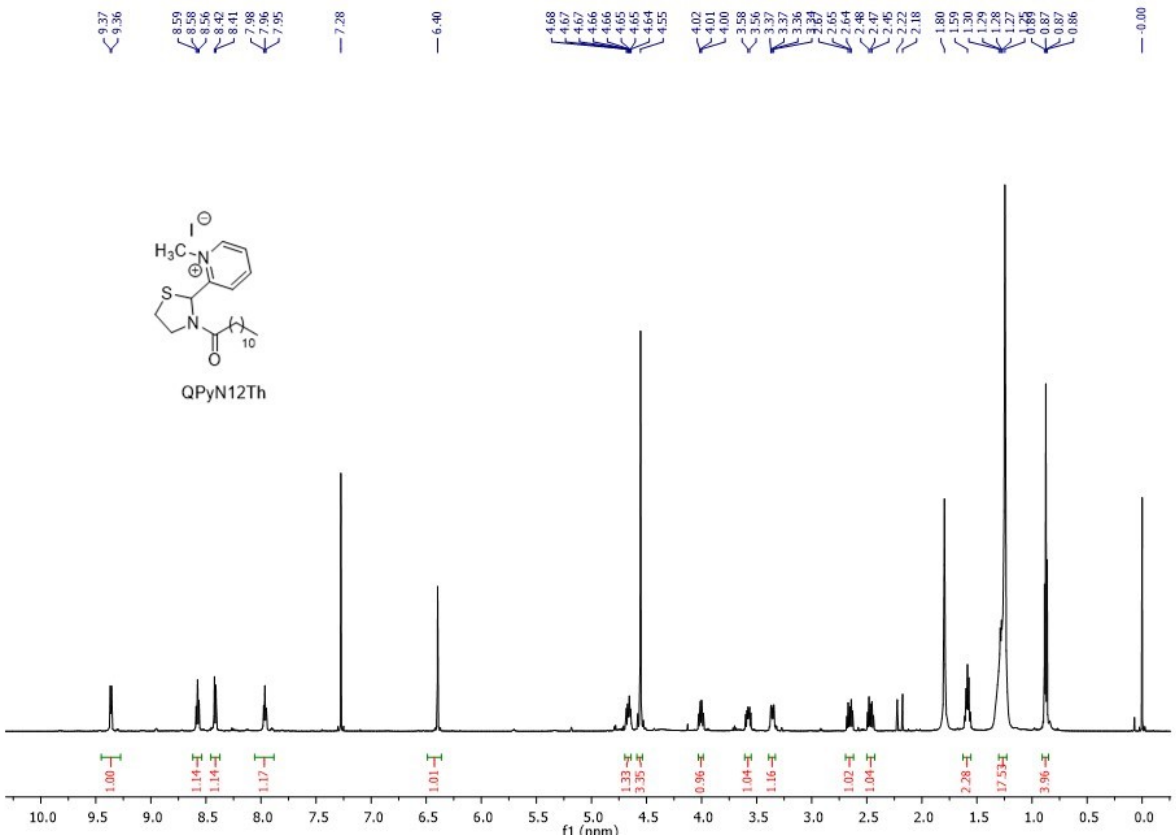

Fig. S8A: **^{1}H NMR of QPyN12Th**

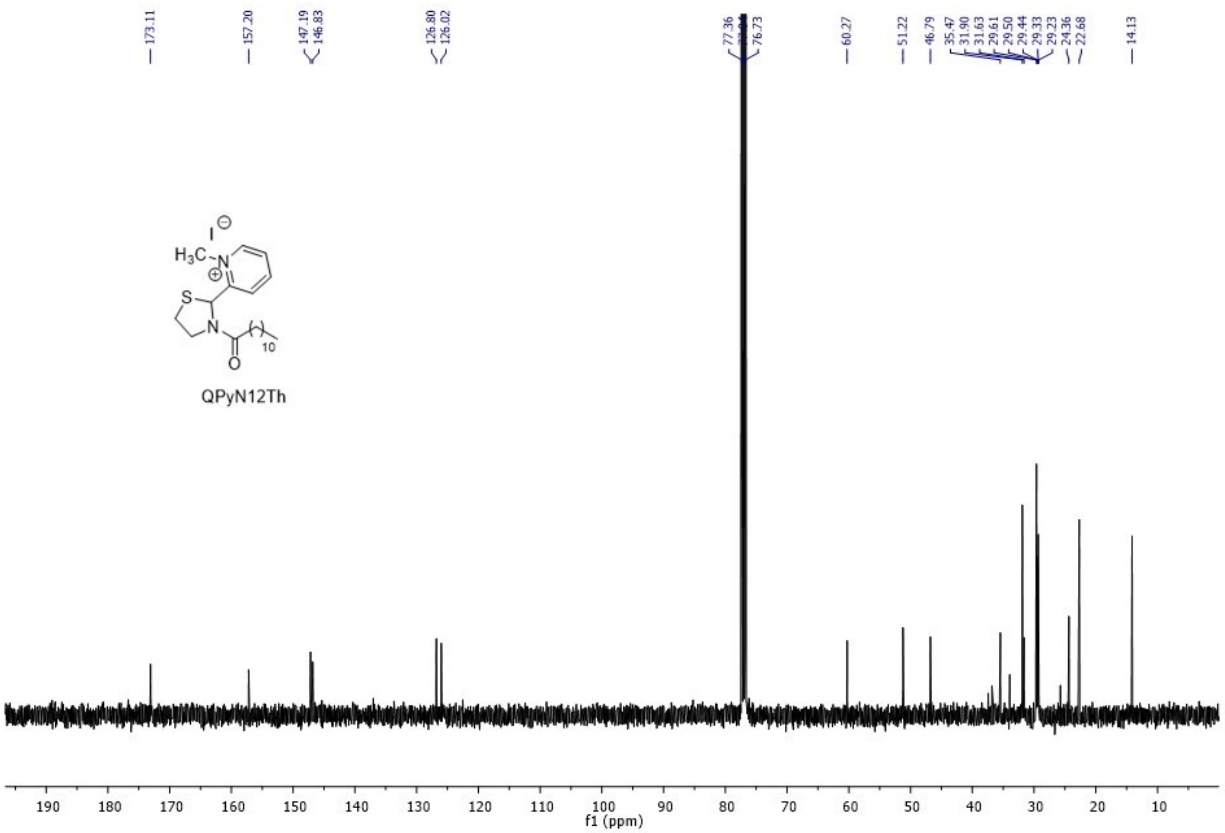

Fig. S8B: **^{13}C NMR of QPyN12Th**

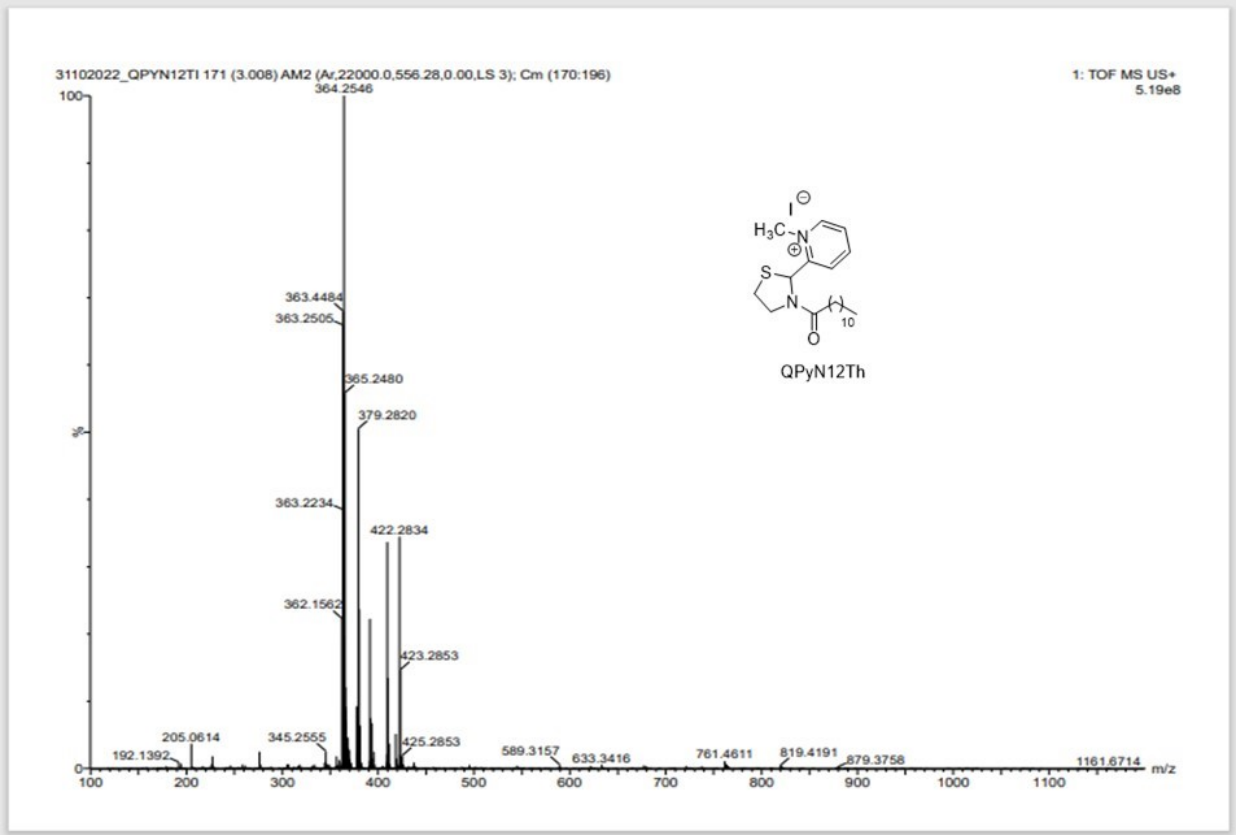

Fig. S8C: **HRMS of QPyN12Th**

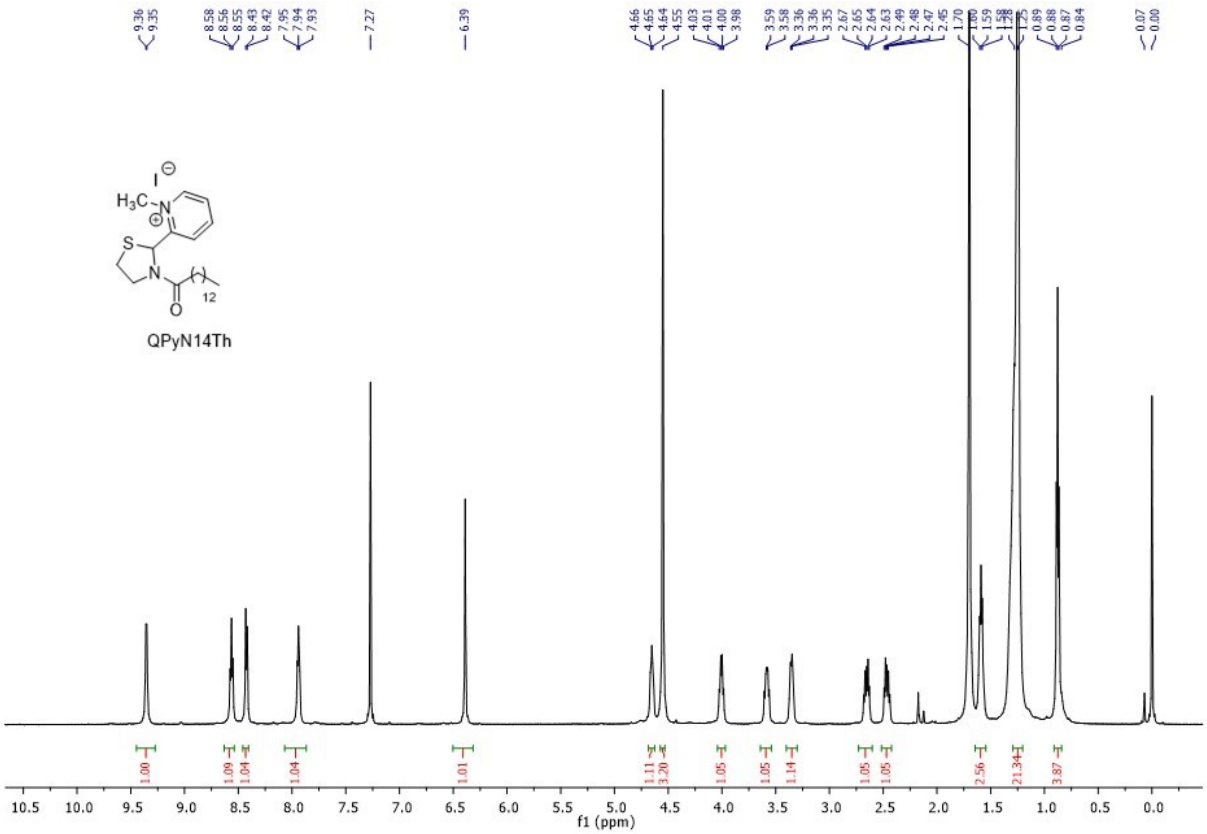

Fig. S9A: **^{1}H NMR of QPyN14Th**

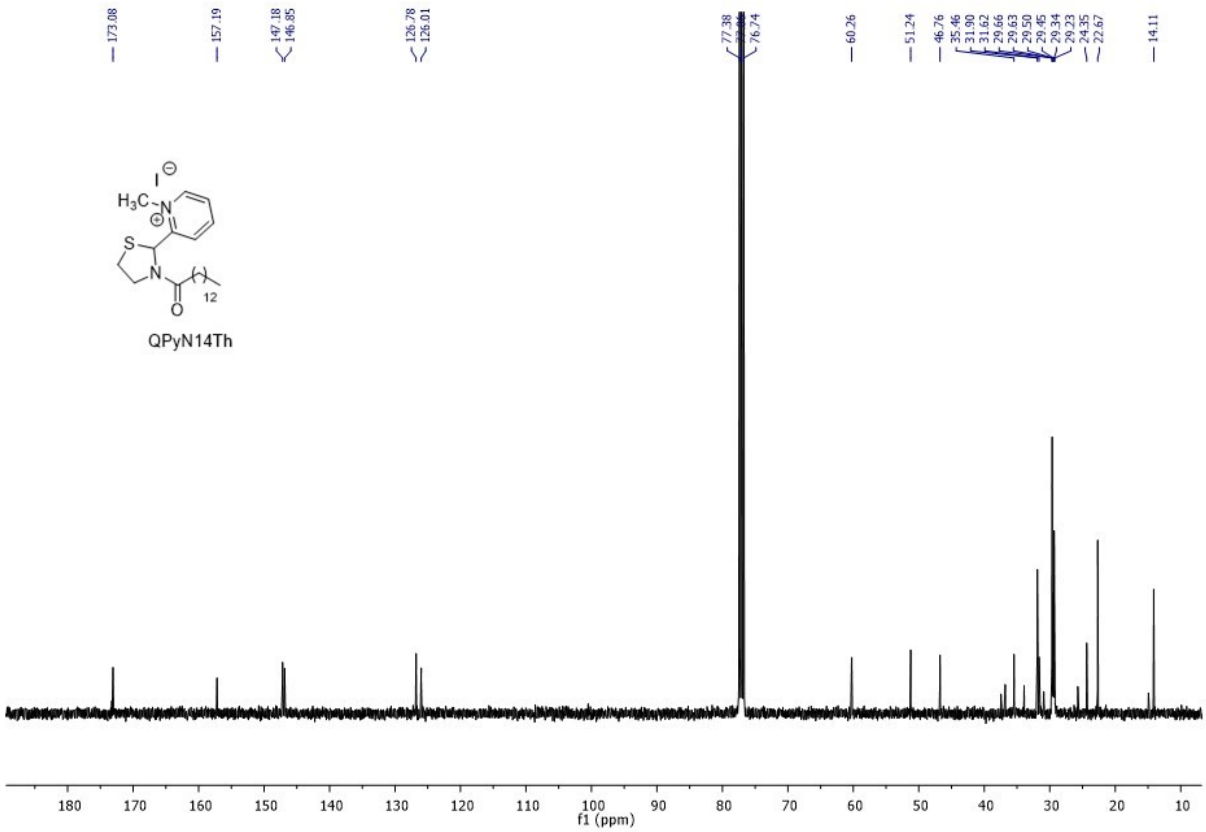

Fig. S9B: **^{13}C NMR of QPyN14Th**

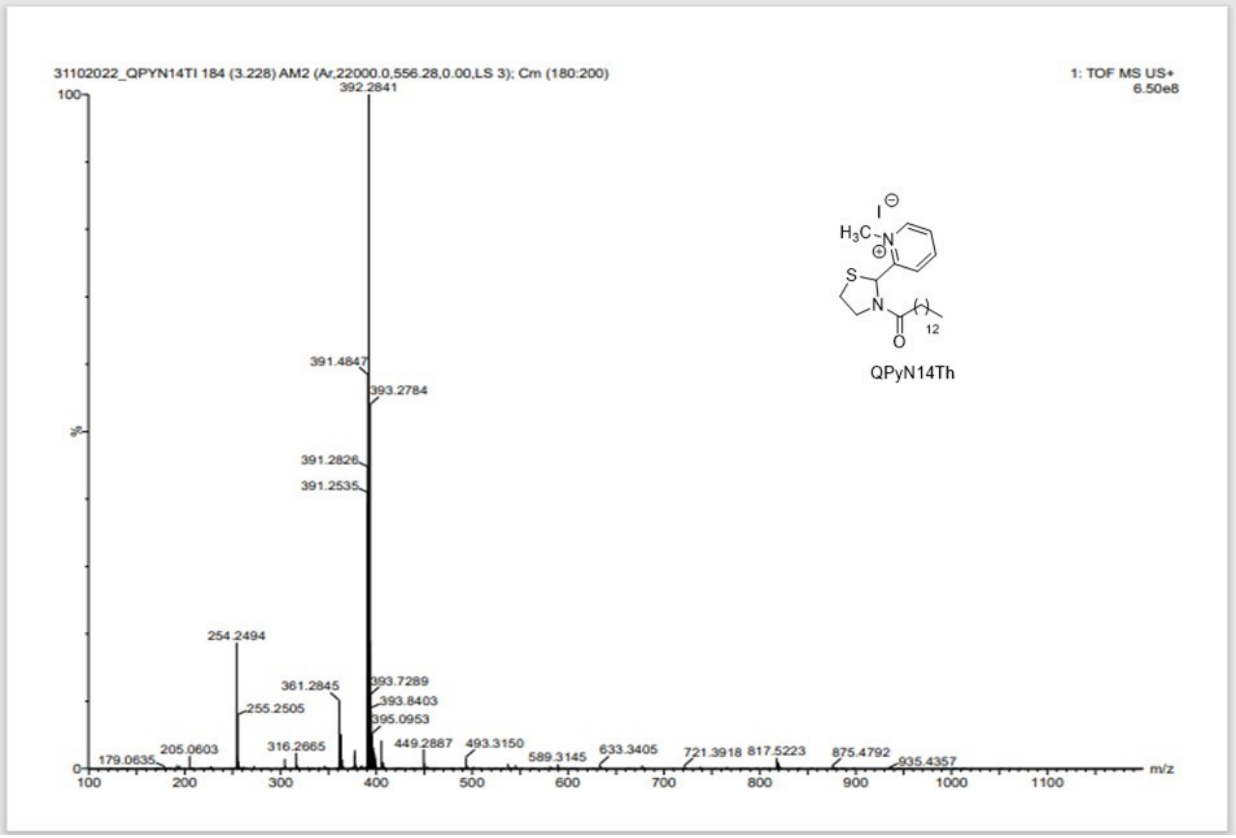

Fig. S9C: **HRMS of QPyN14Th**

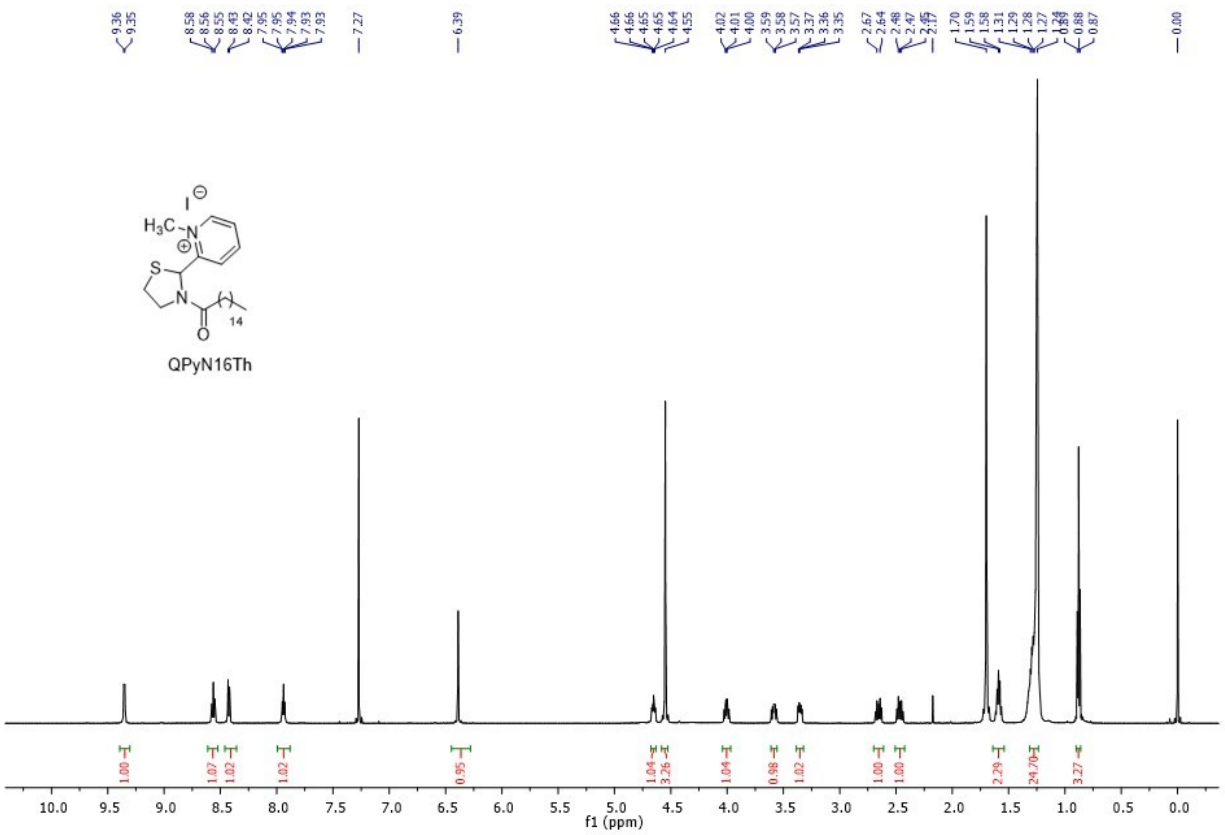

Fig. S10A: **^{1}H NMR of QPyN16Th**

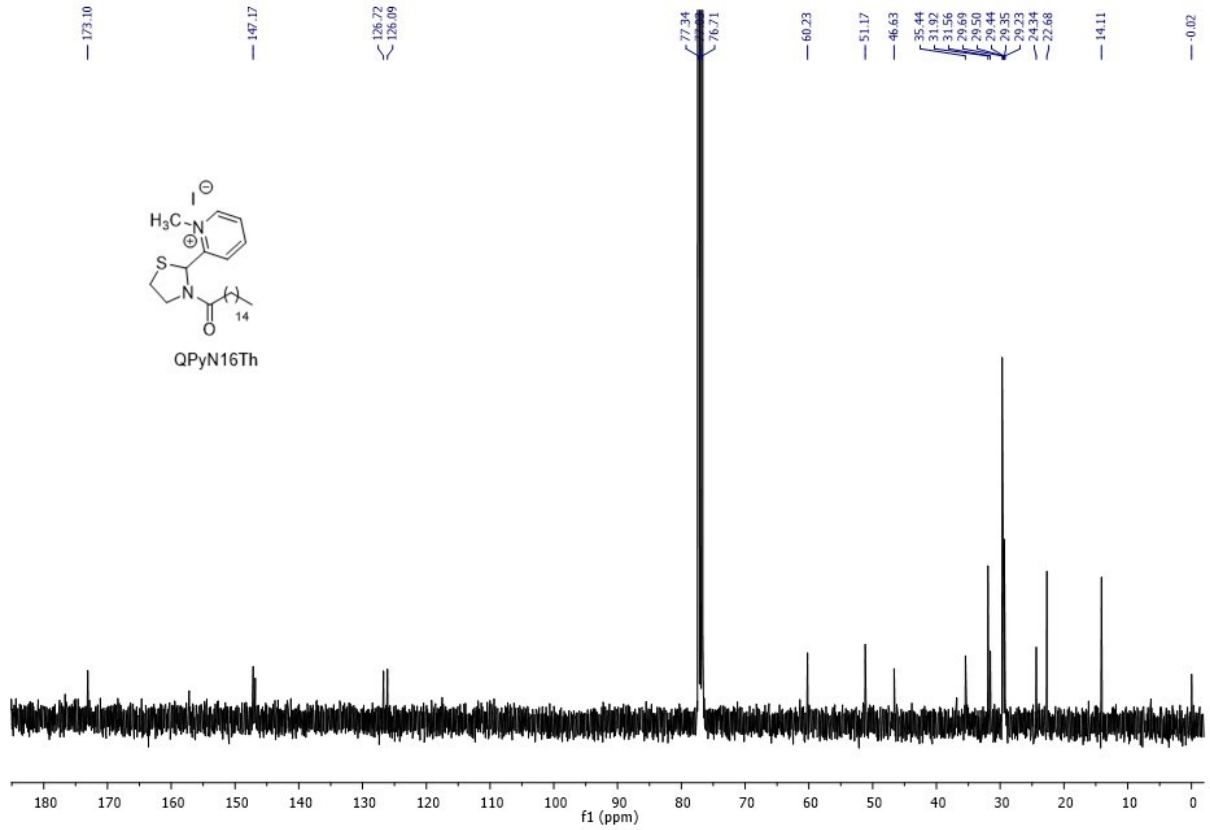

Fig. S10B: **^{13}C NMR of QPyN16Th**

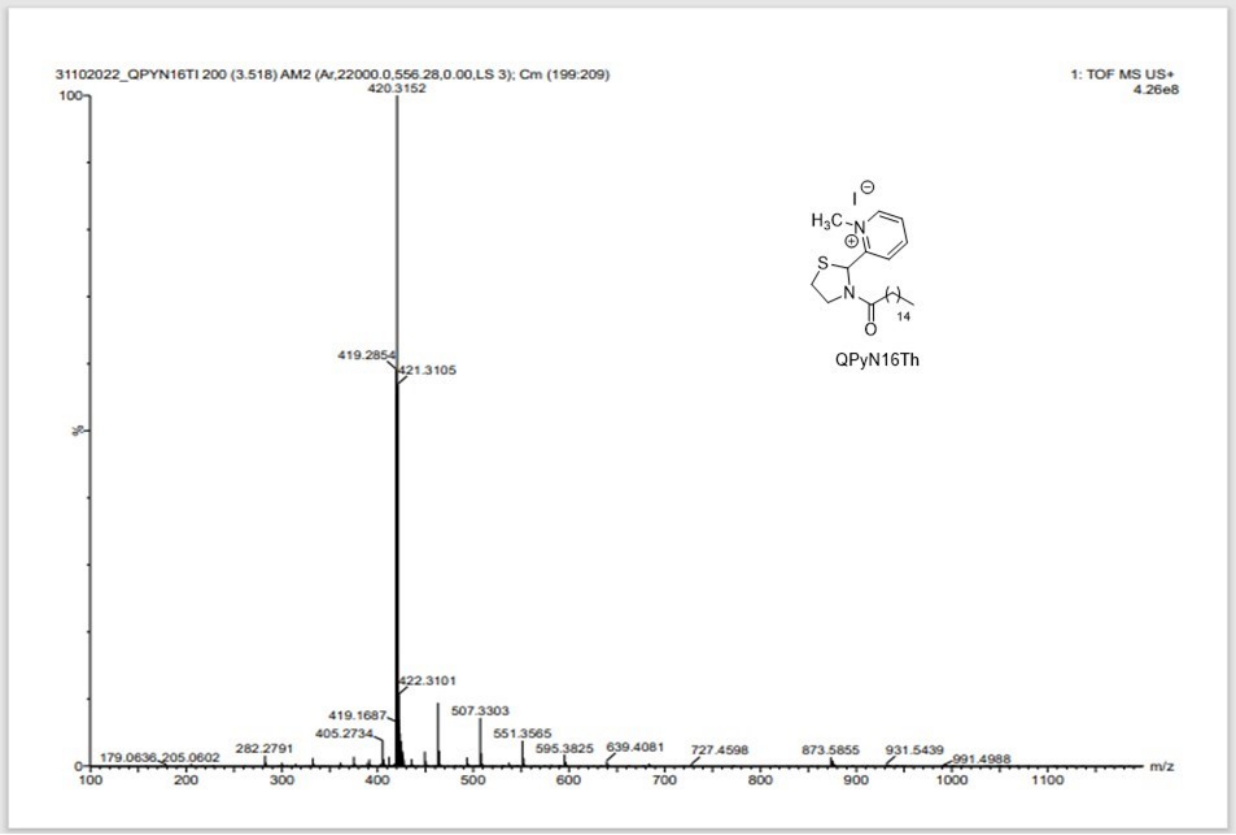

Fig. S10C: **HRMS of QPyN16Th**

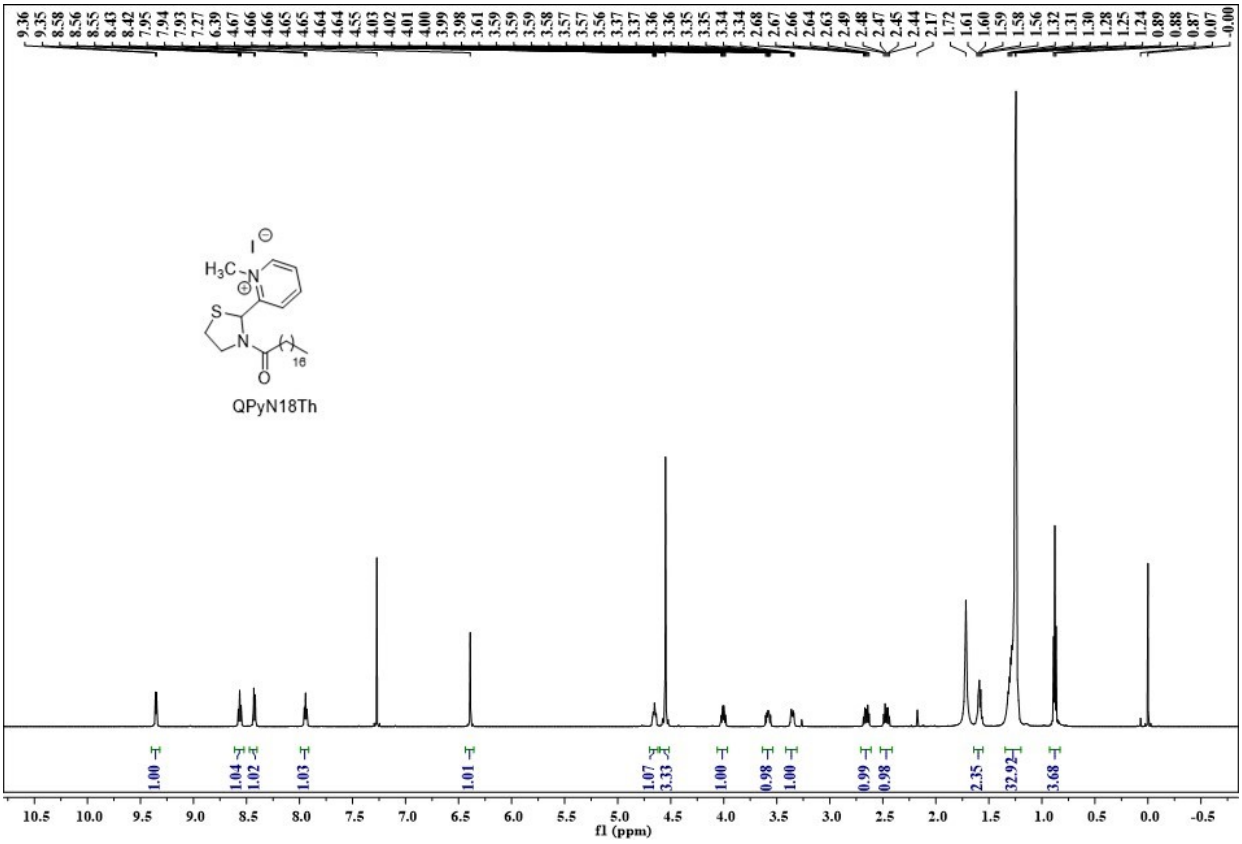

Fig. S11A: **^{1}H NMR of QPyN18Th**

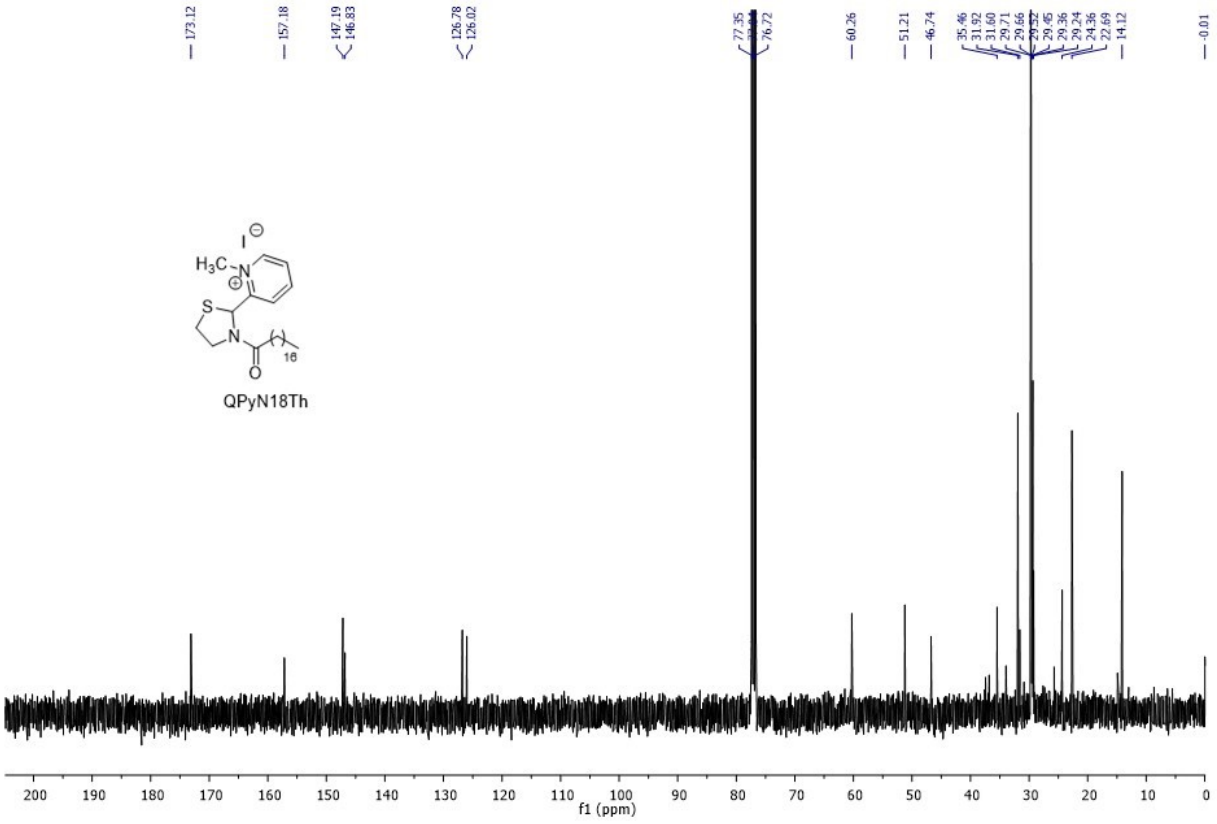

Fig. S11B: **^{13}C NMR of QPyN18Th**

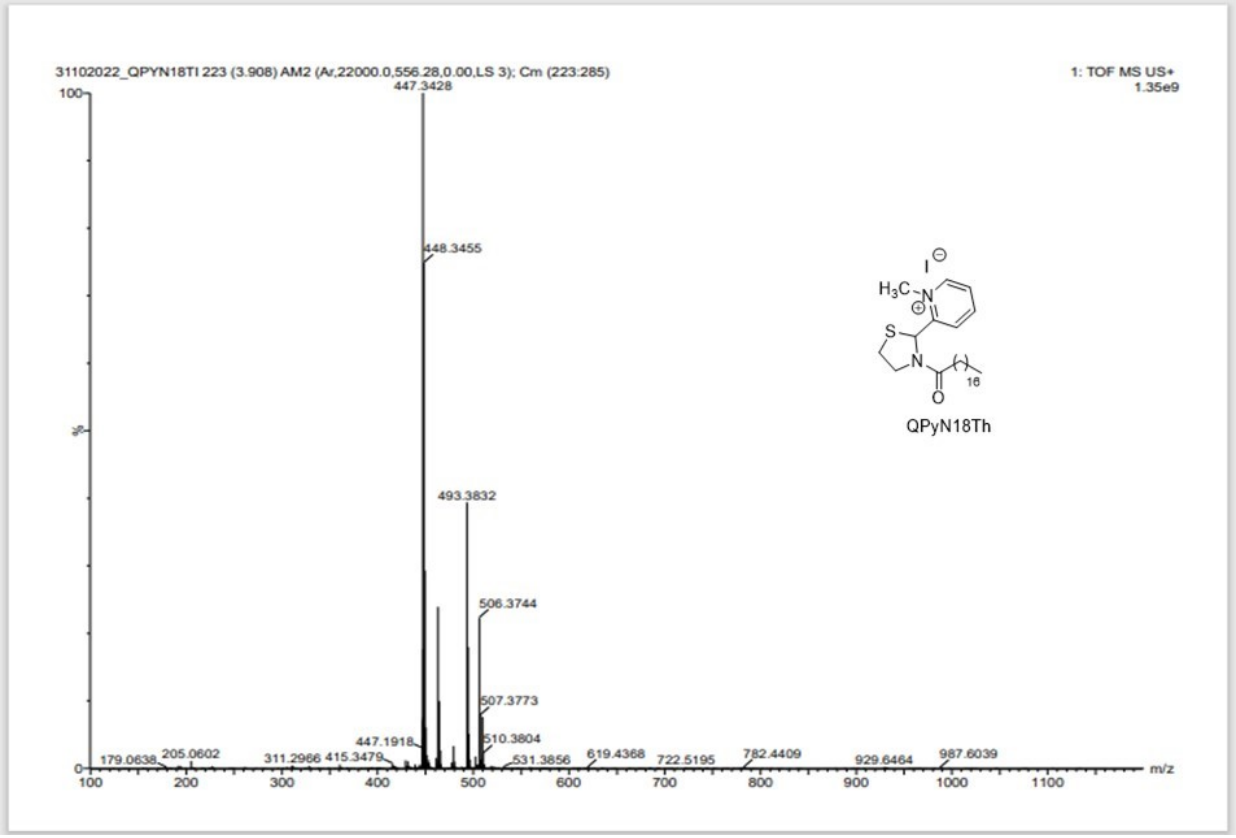

Fig. S11C: **HRMS of QPyN18Th**

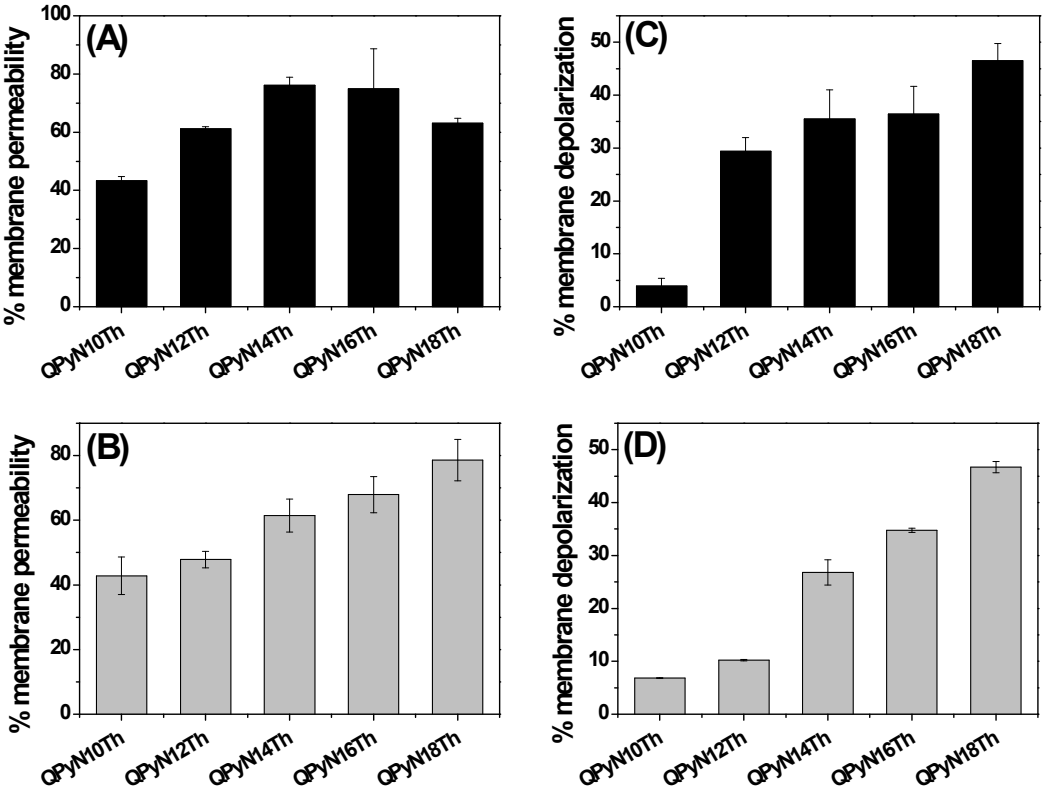

Fig. S12: **Membrane integrity assay at 1X MIC. Effects of QPyNATh on membrane permeability of (A) UPEC and (B) MRSA. Effects of QPyNATh on membrane depolarization of (C) UPEC and (D) MRSA.**

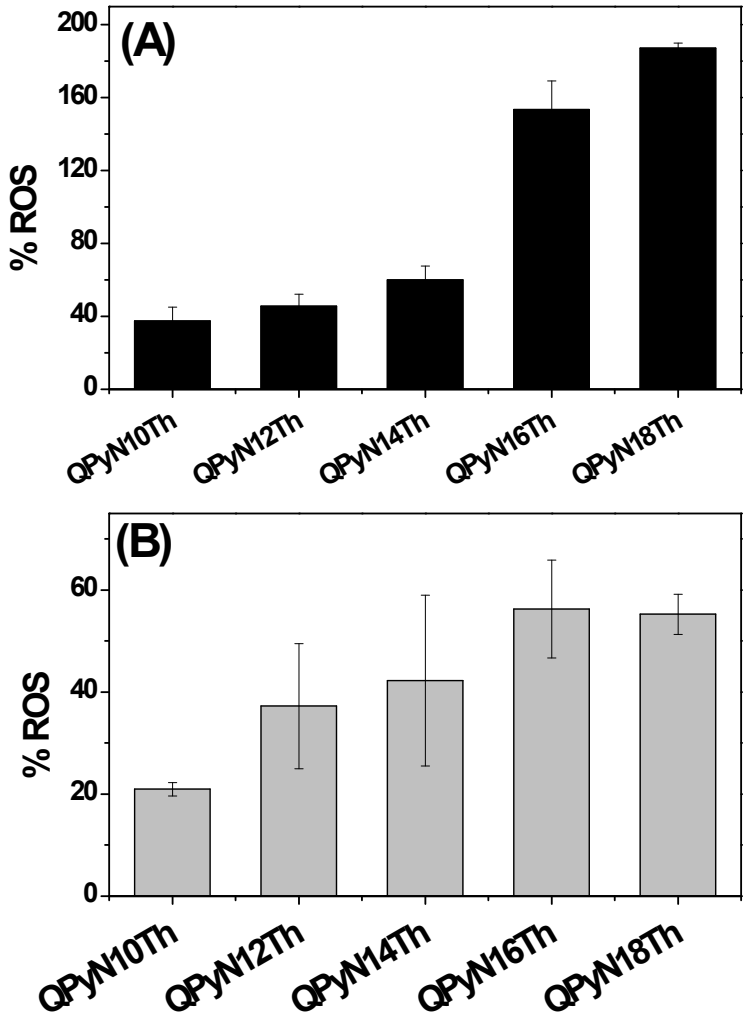

Fig. S13: **ROS assay at 1X MIC. Effects of QPyNATh on ROS generation in (A) UPEC and (B) MRSA.**