

An Improved Synthesis Route of Molnupiravir and its Key Impurities

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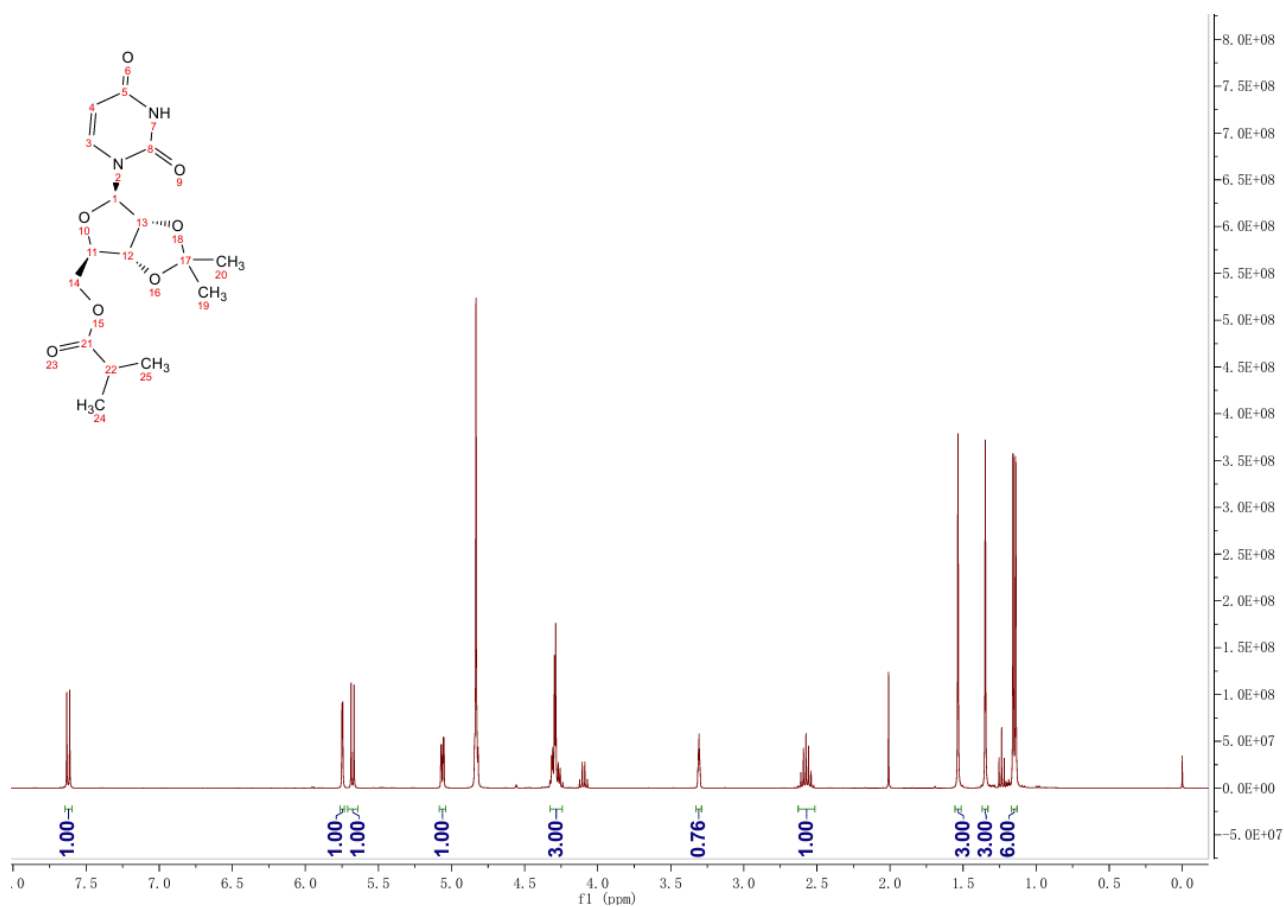


Fig. S1 ¹H NMR spectrum of ML-4.

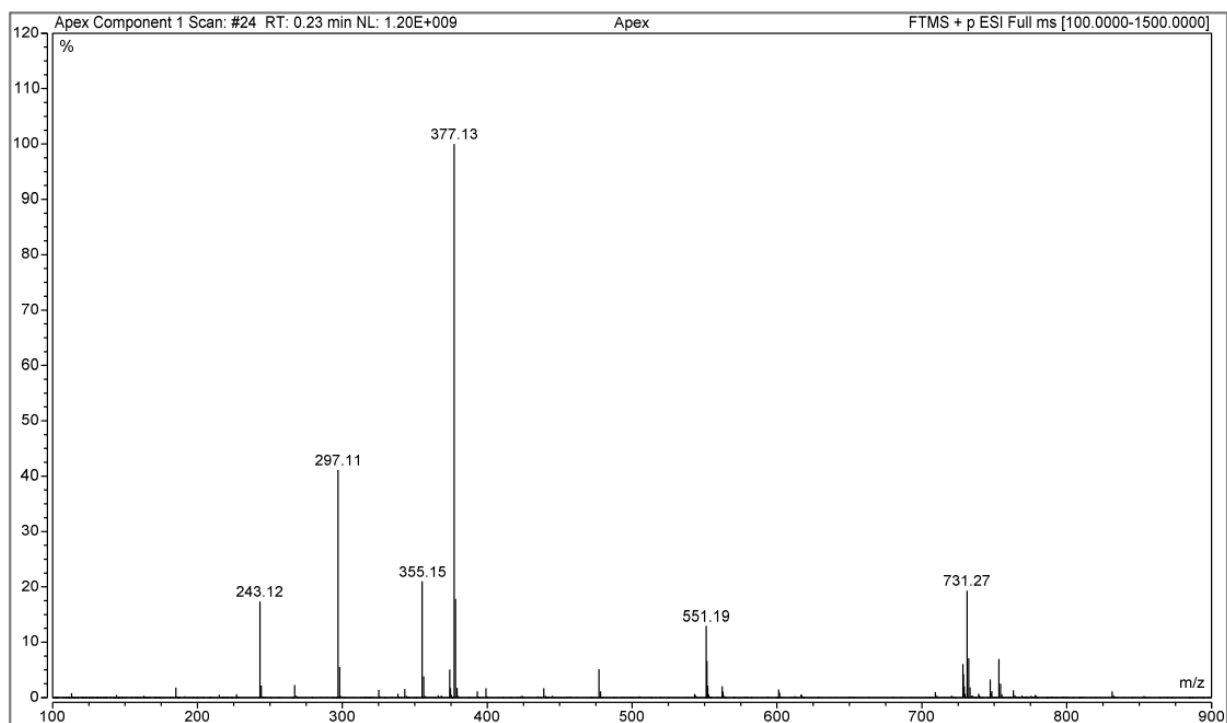


Fig. S2 MS spectrum of ML-4.

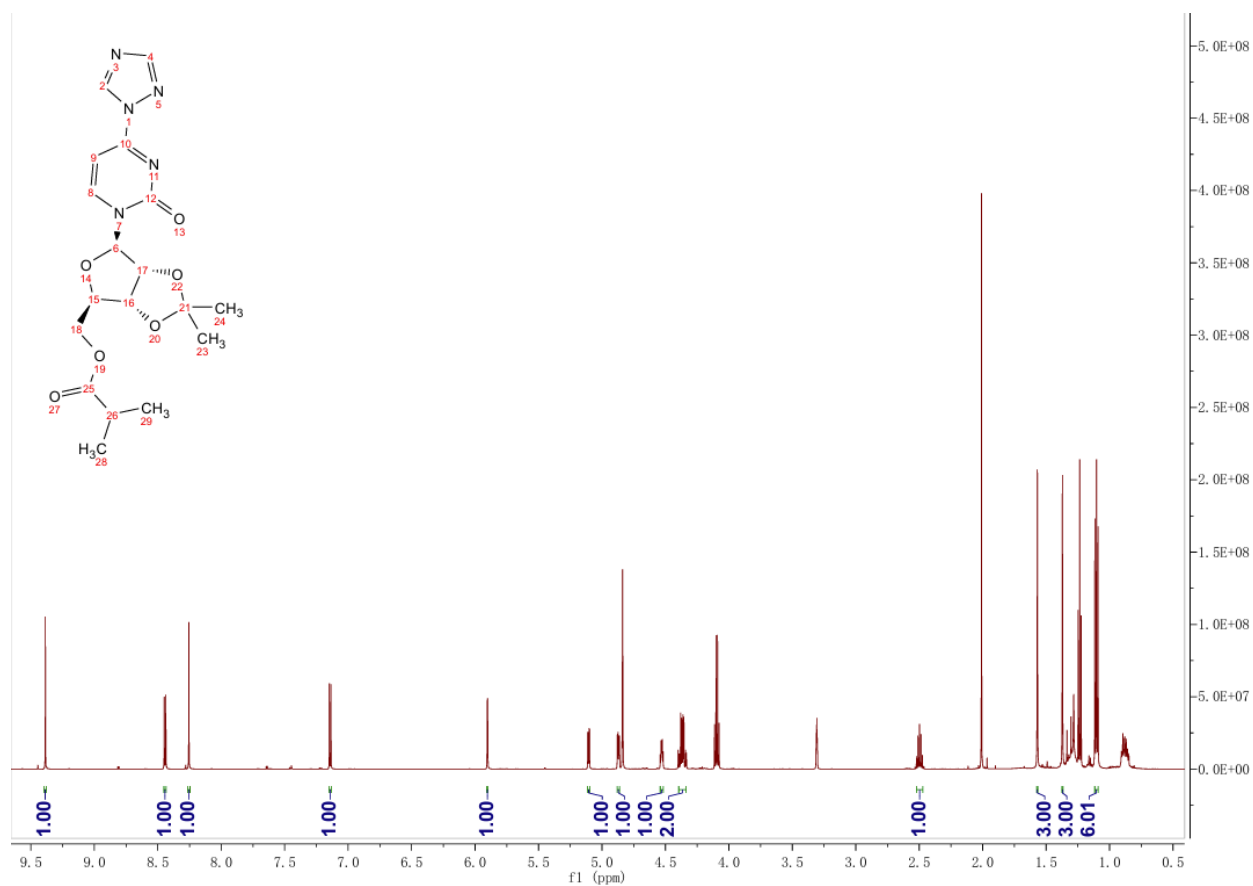


Fig. S3 ¹H NMR spectrum of ML-5.

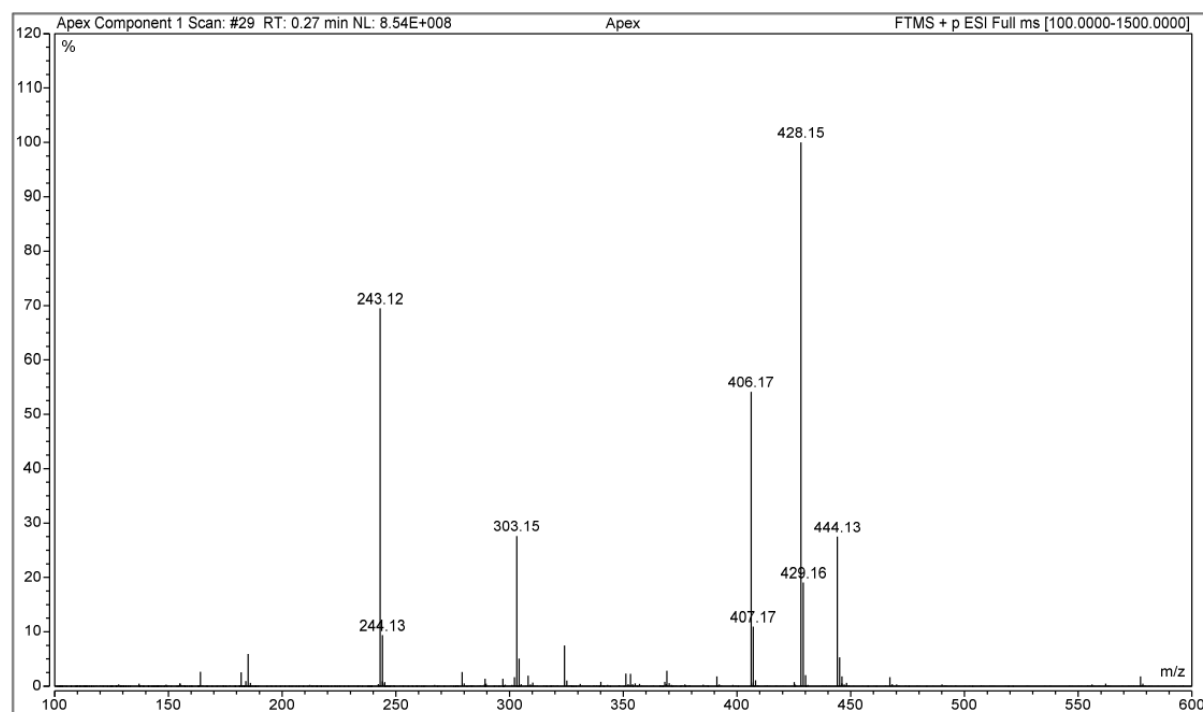
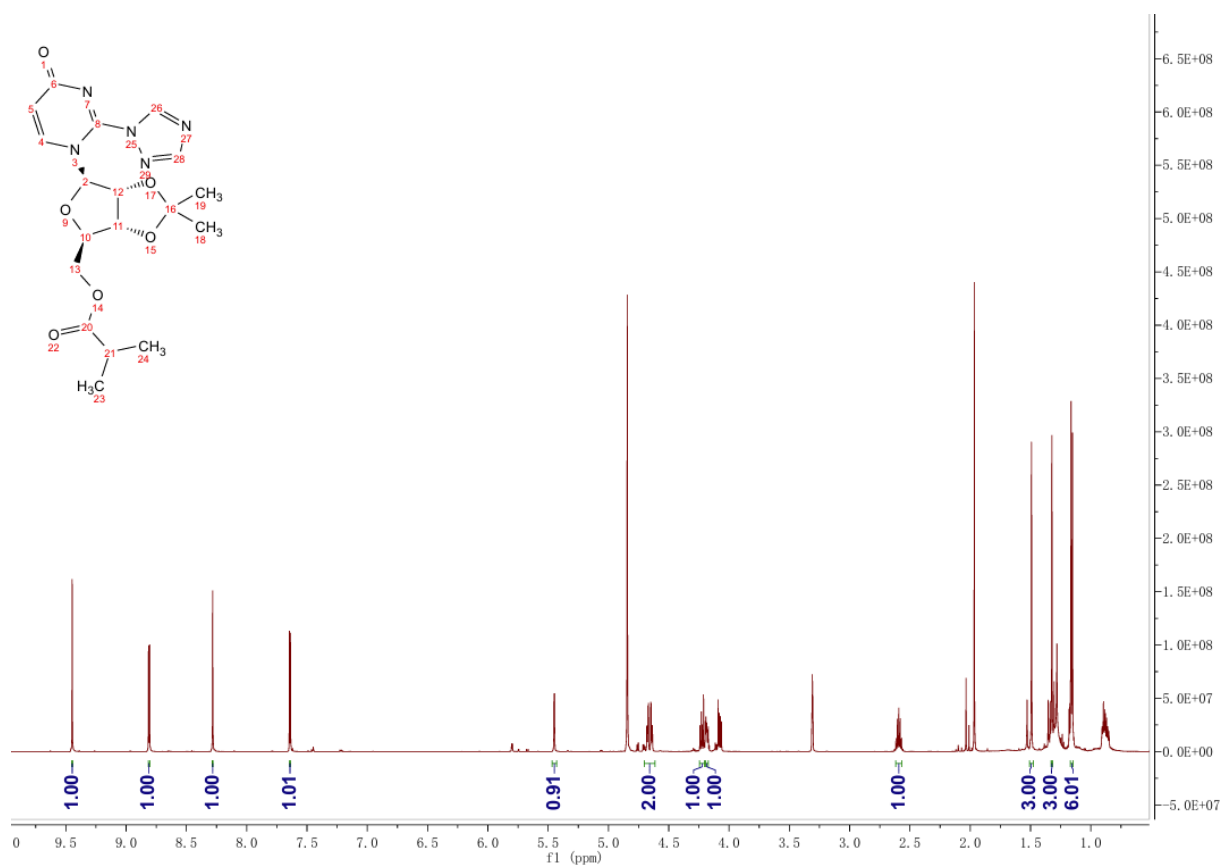
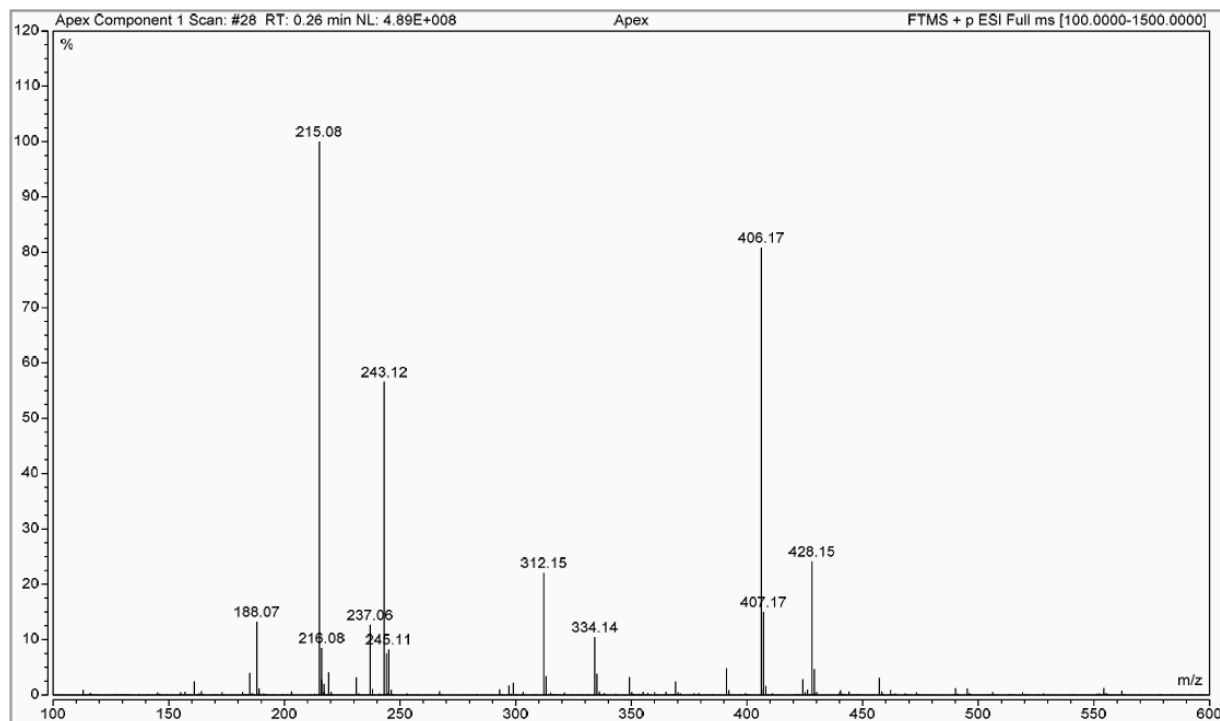


Fig. S4 MS spectrum of ML-5.

**Fig. S5** ¹H NMR spectrum of ML-5-Z1.**Fig. S6** MS spectrum of ML-5-Z1.

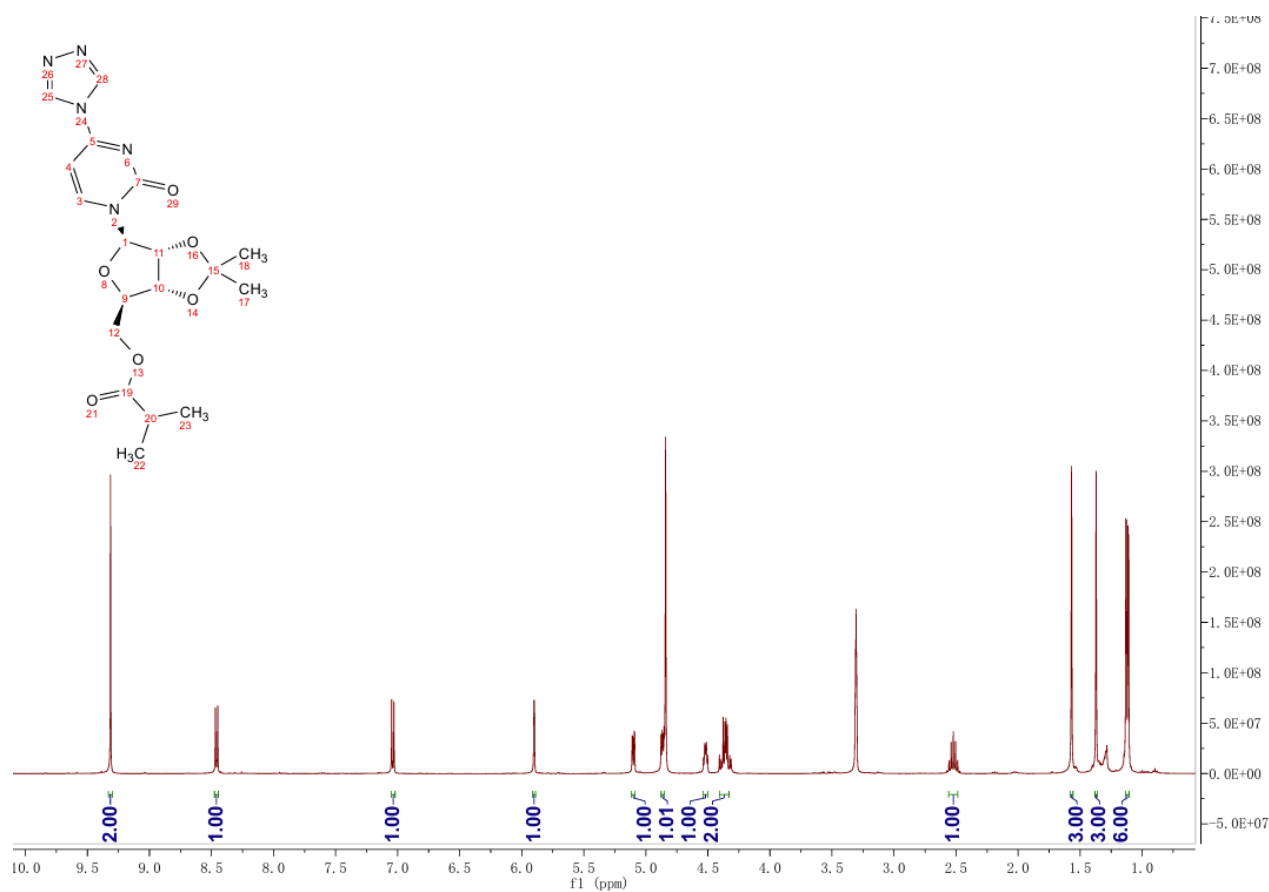


Fig. S7 ¹H NMR spectrum of ML-5-Z2.

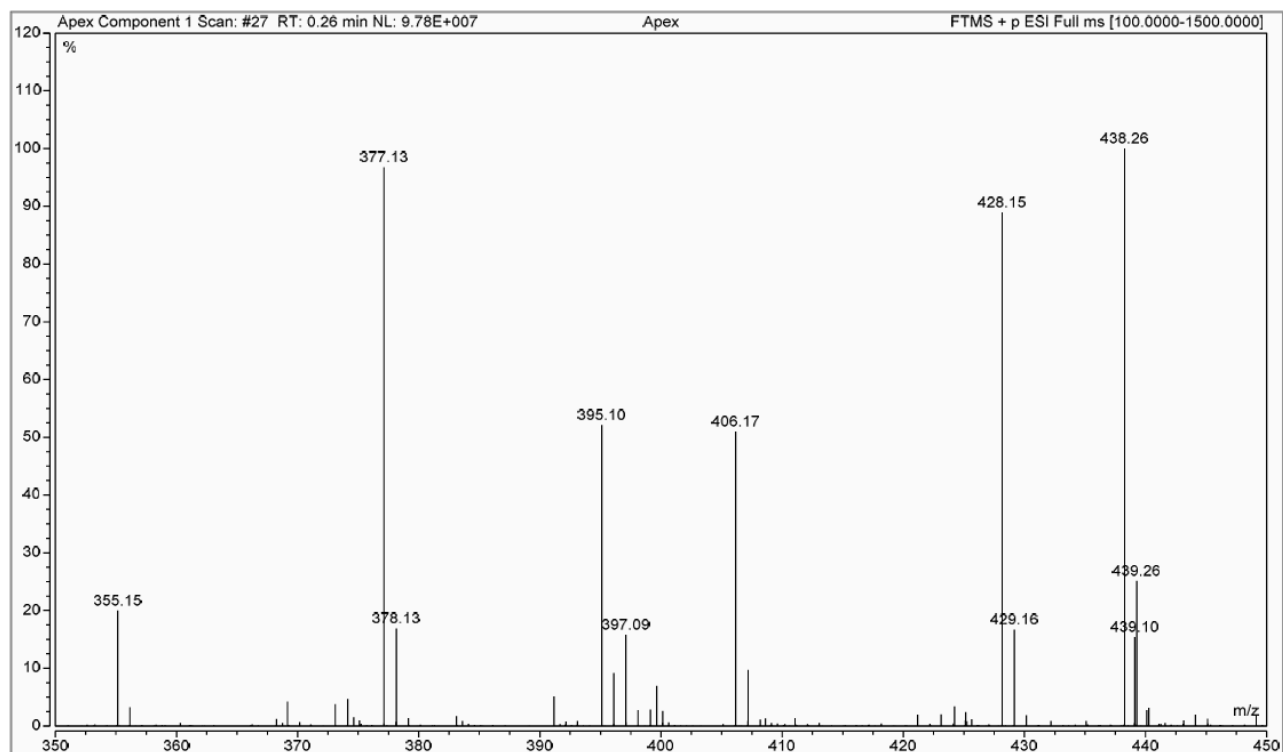


Fig. S8 MS spectrum of ML-5-Z2.

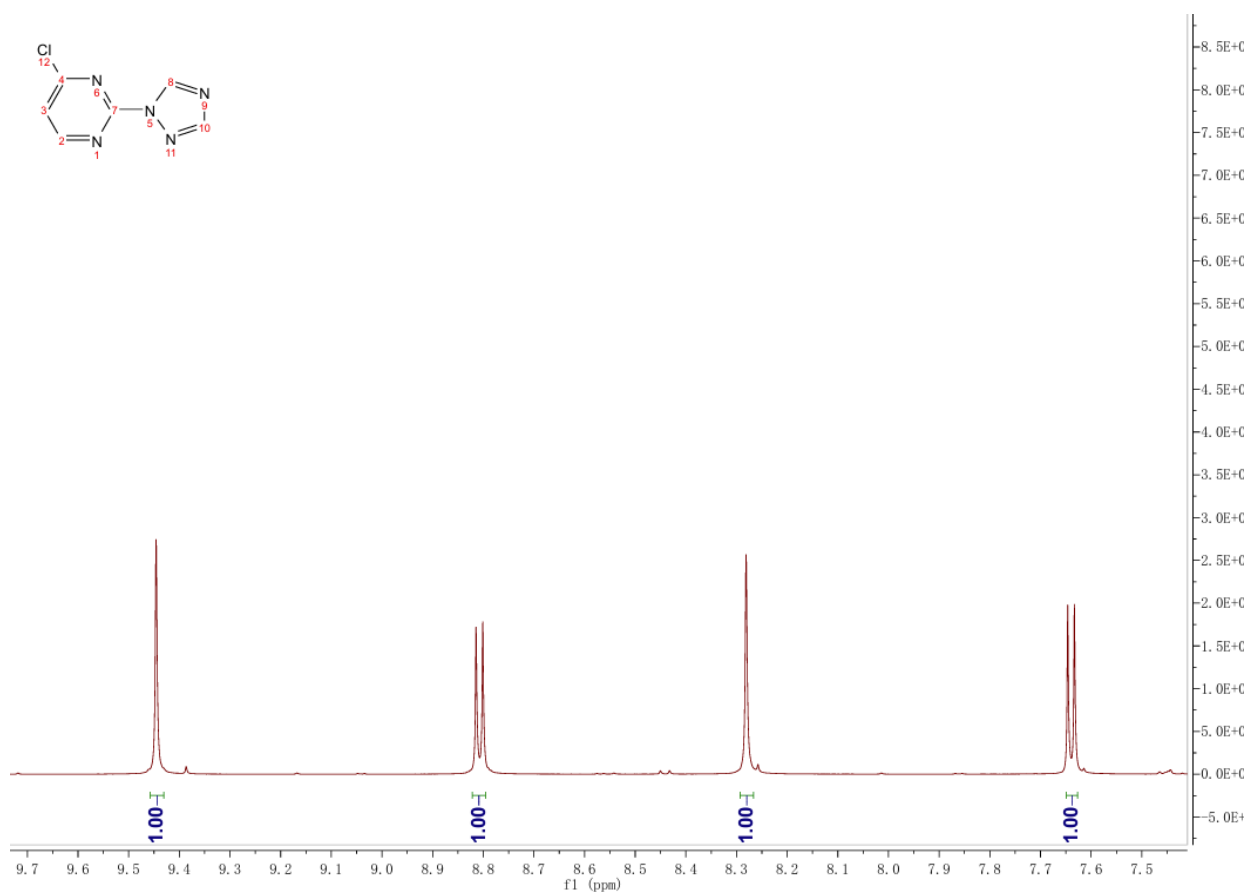


Fig. S9 ^1H NMR spectrum of ML-5-Z3.

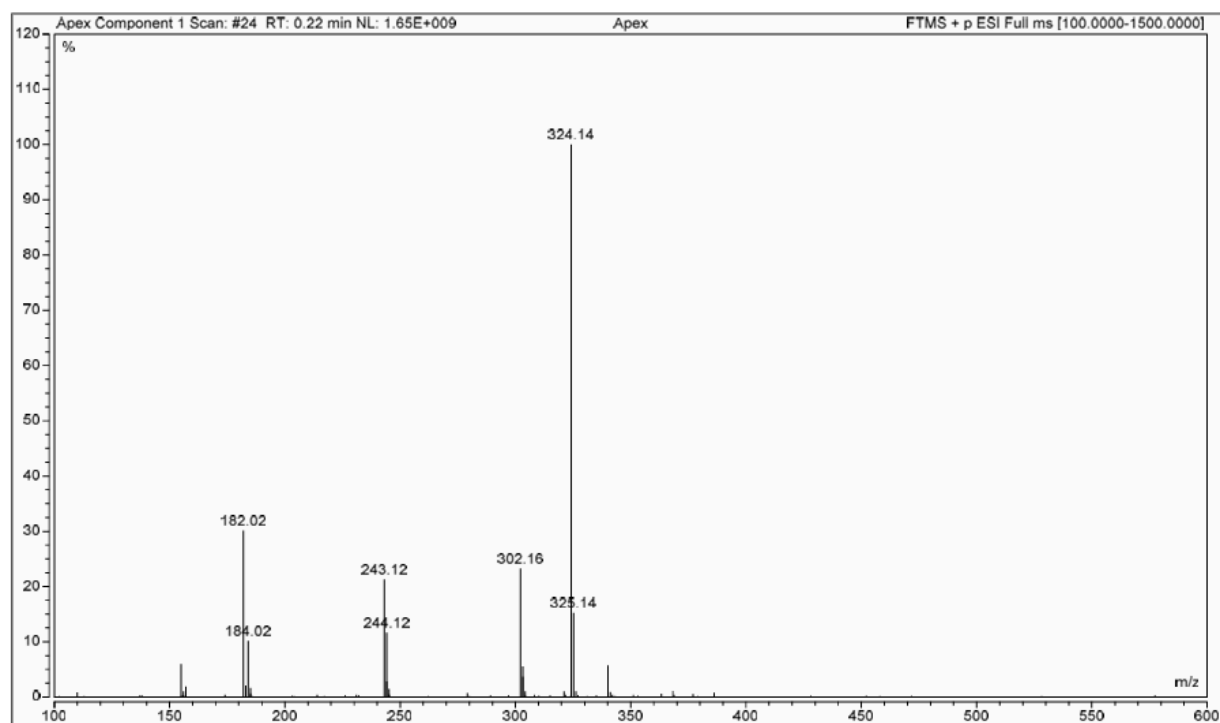


Fig. S10 MS spectrum of ML-5-Z3.

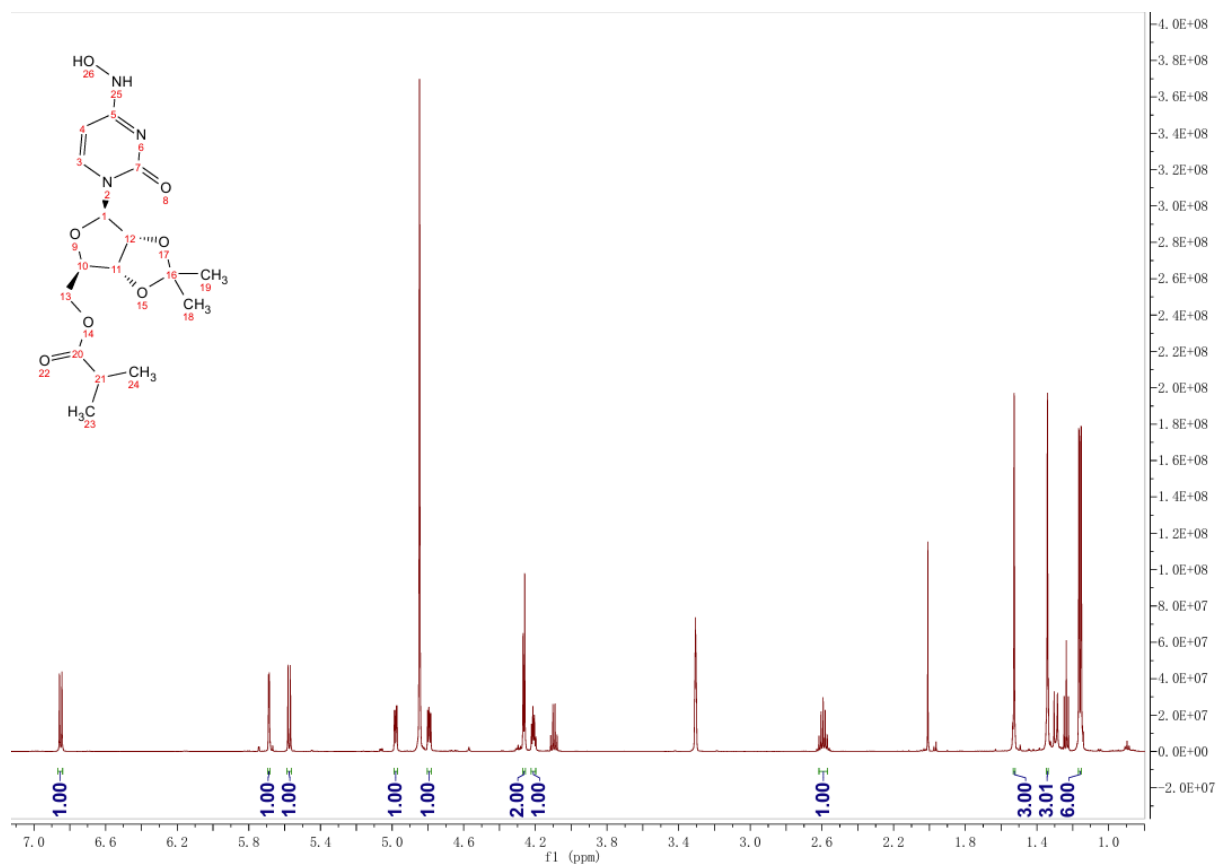


Fig. S11 ¹H NMR spectrum of ML-6.

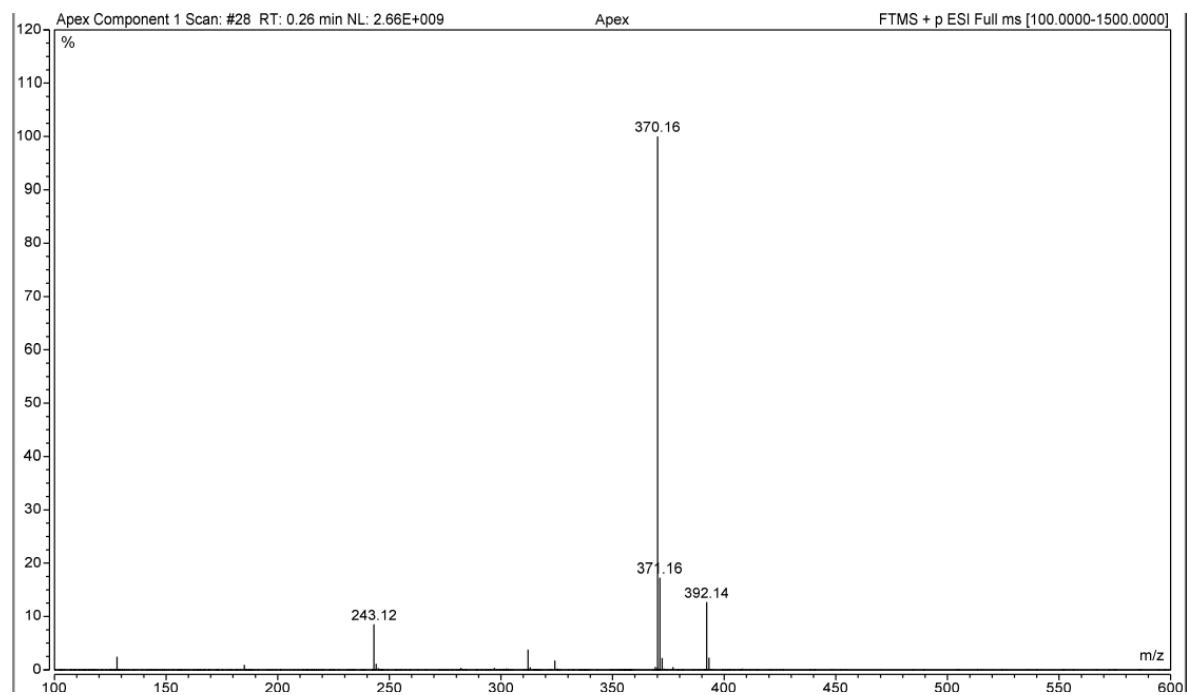


Fig. S12 MS spectrum of ML-6.

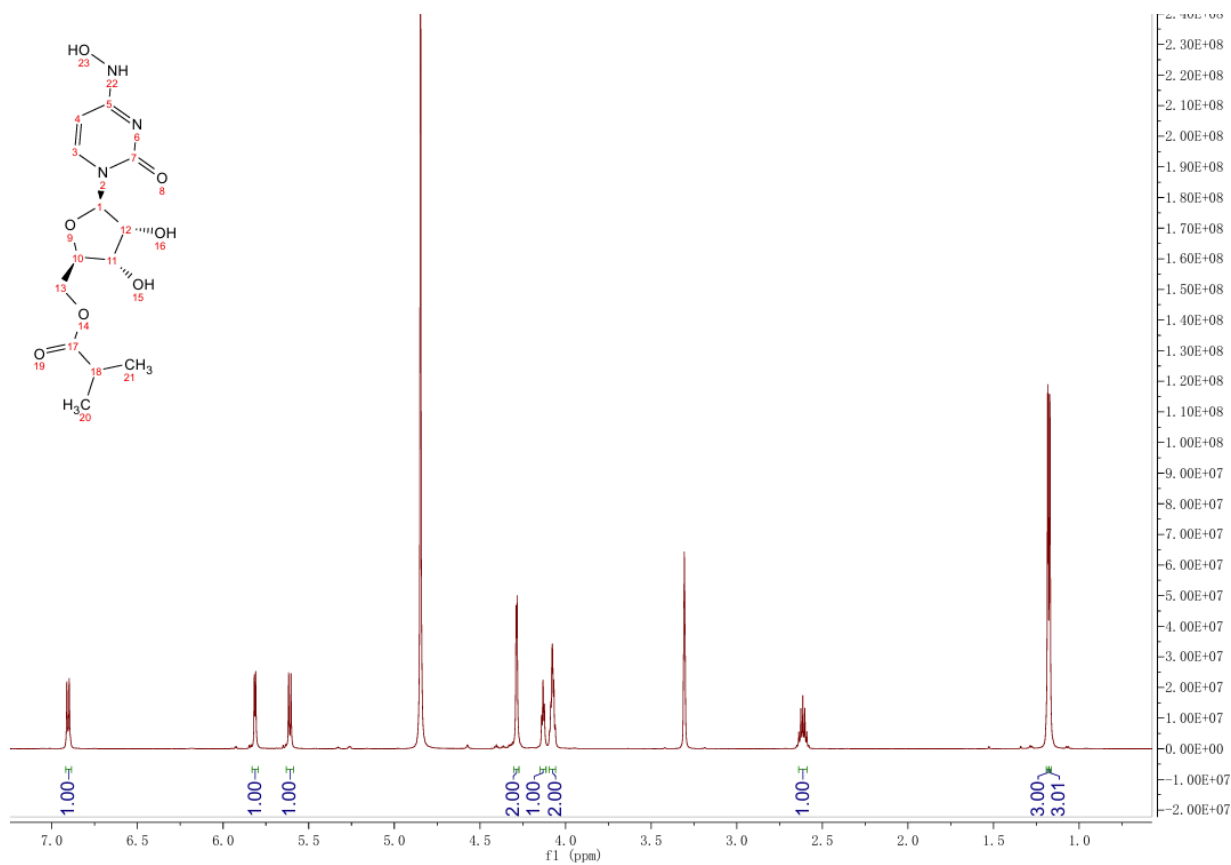


Fig. S13 ¹H NMR spectrum of ML-1.

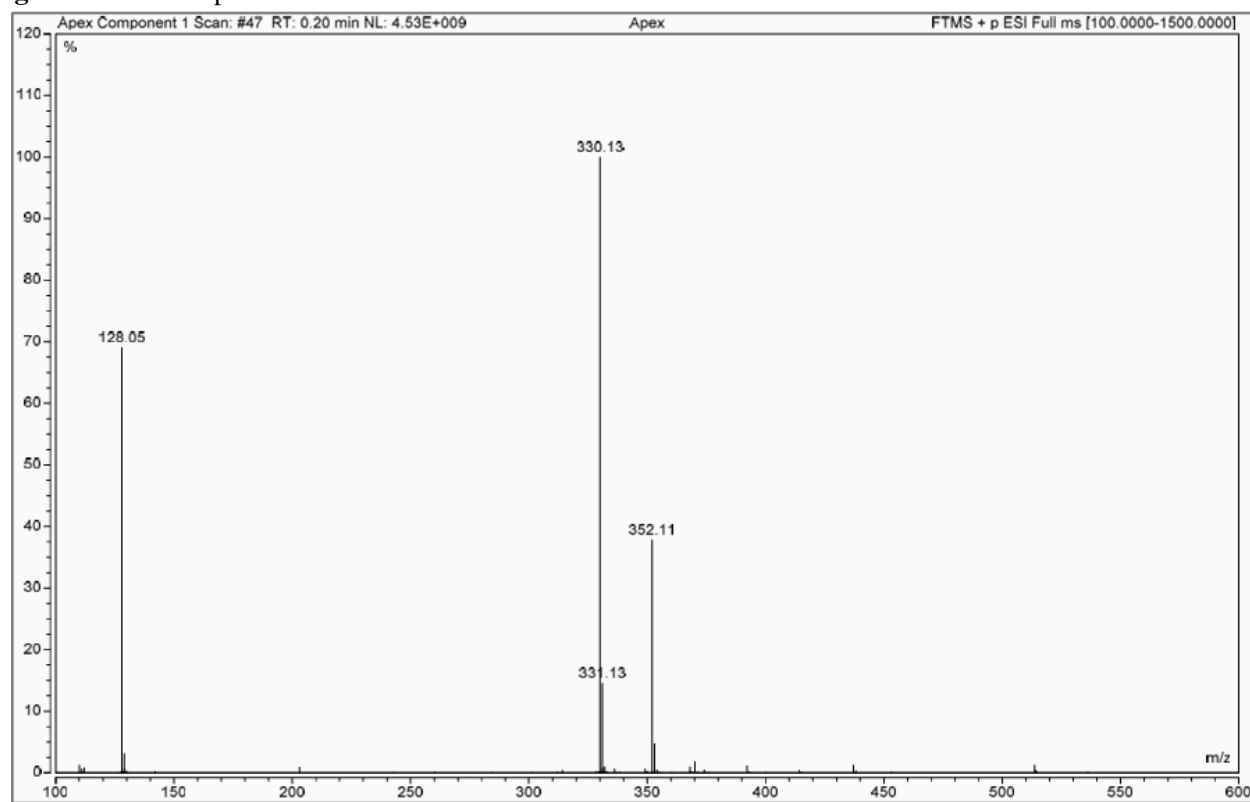


Fig. S14 MS spectrum of ML-1.

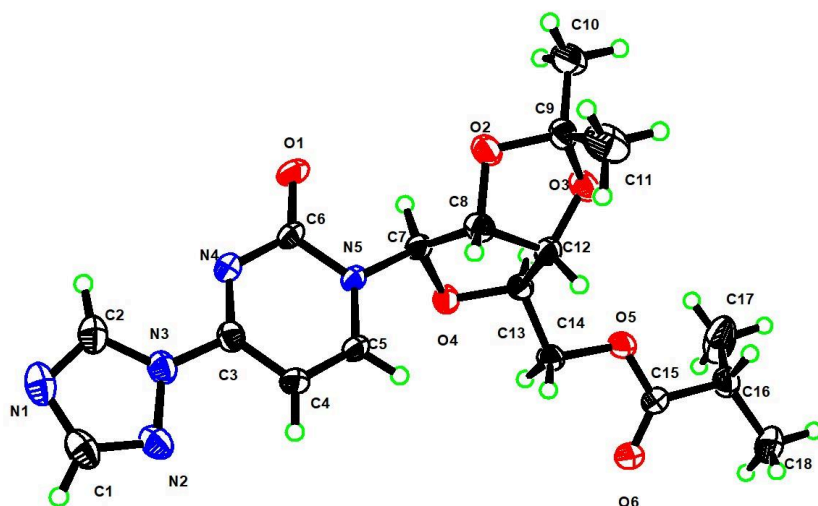


Fig. S15 X-ray of ML-5.

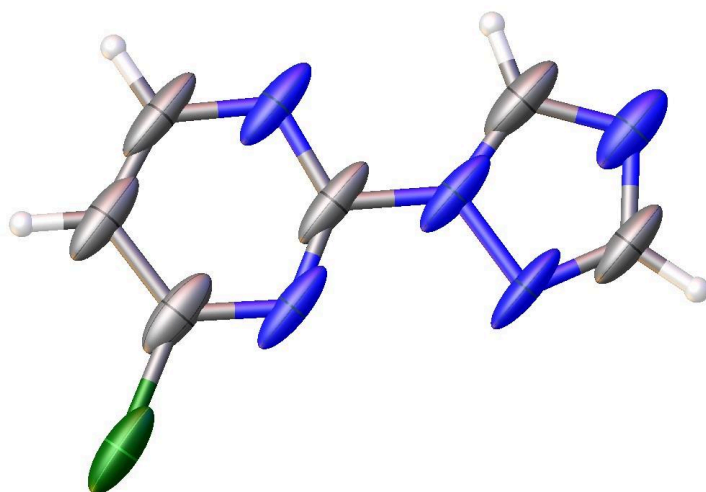
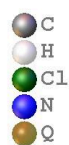


Fig. S16 X-ray of ML-5-Z3.