

# Supporting Information

## **SYNTHESIS AND ANTITUMOR ACTIVITIES OF STEROIDAL 5 $\alpha$ ,8 $\alpha$ -ENDOPEROXIDE DERIVATIVES WITH SIDE CHAIN OF 17-HYDRAZONE AROMATIC HETEROCYCLE**

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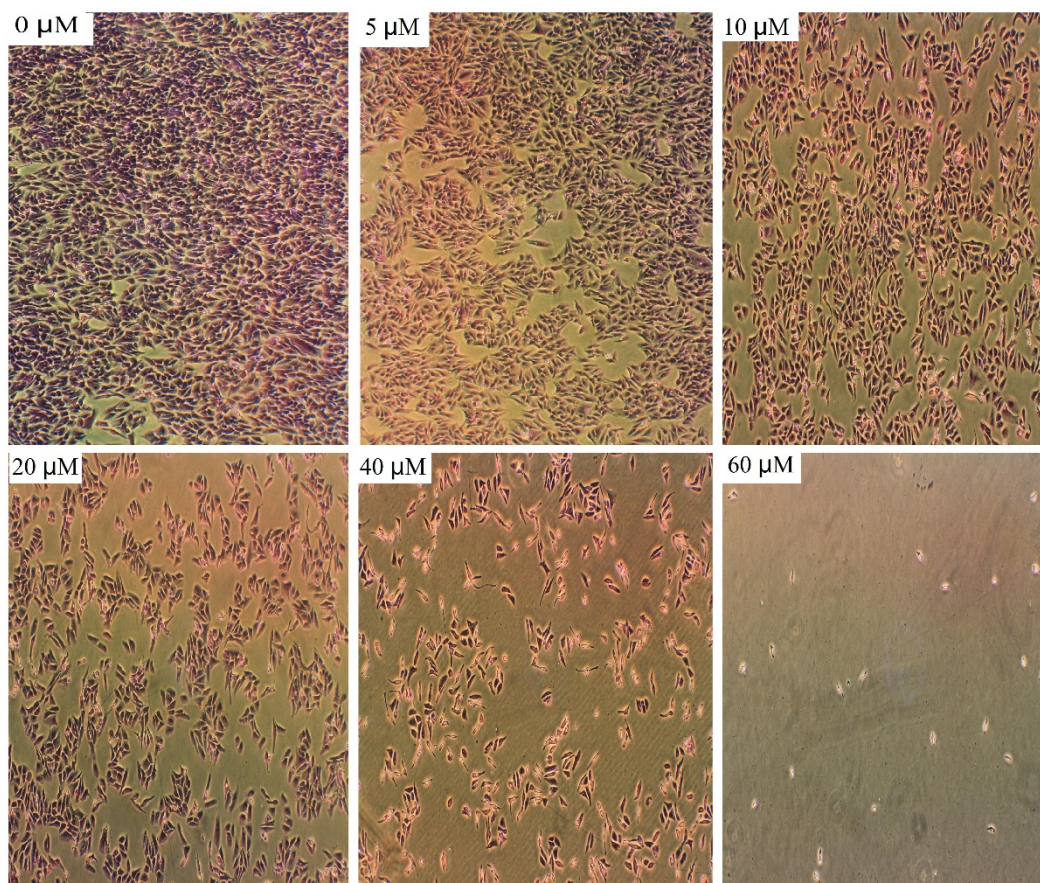
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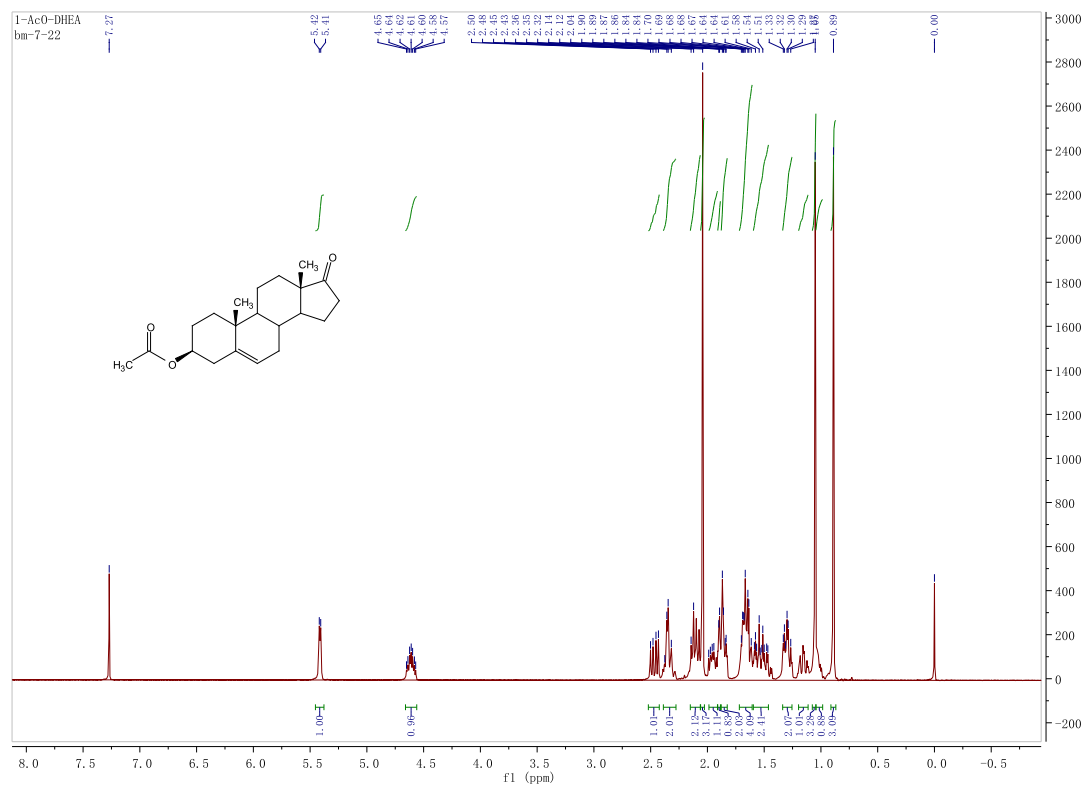
### S1. Figure. Typical photos of cancer cells death induced by compound **8b**.

HepG2 cells were treated with different concentrations of **8b** as indicated for 48 h. Cells were fixed with cold methanol for 15 min and stained with the Diff-Quik-Stain kit, followed by microscopic examination. Typical photos of cell death were shown in Fig. 1.

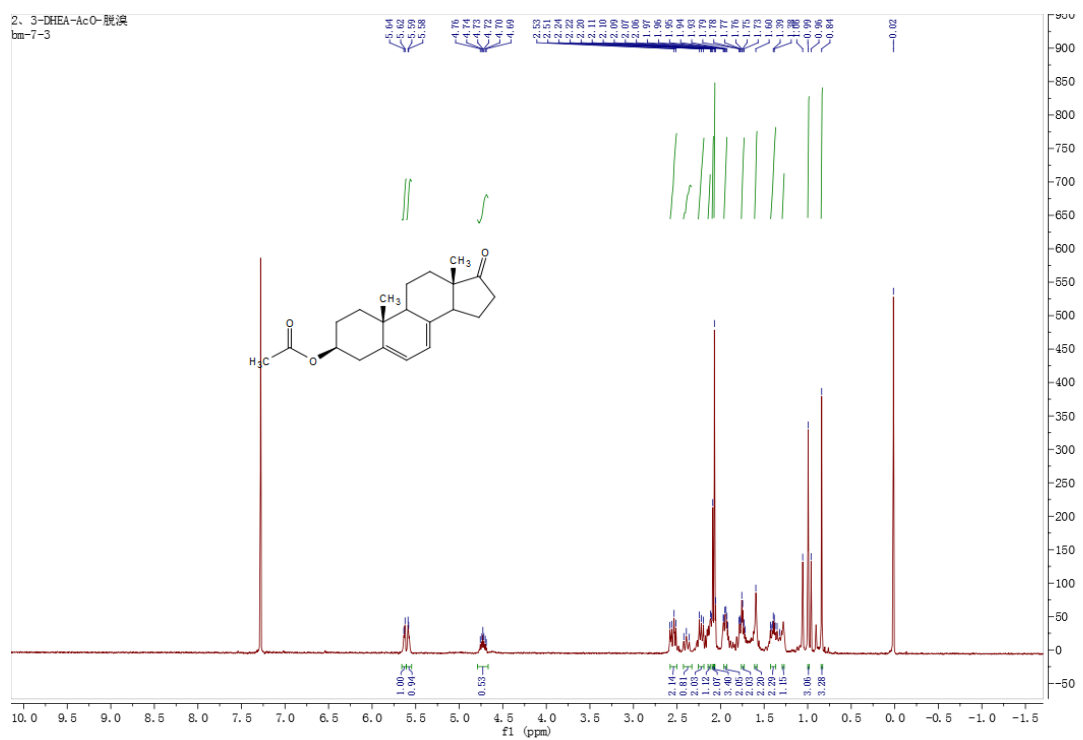


**Fig. 1** Typical photos of cancer cells death induced by compound **8b**

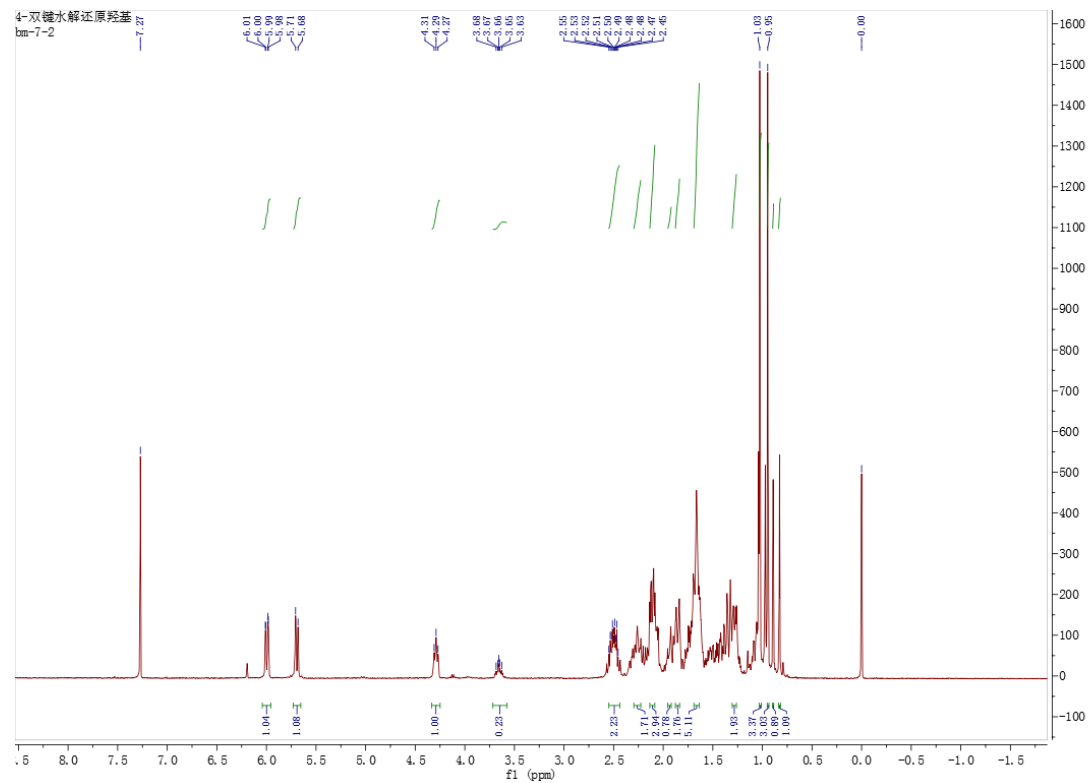
## S2. NMR spectra of compound 2



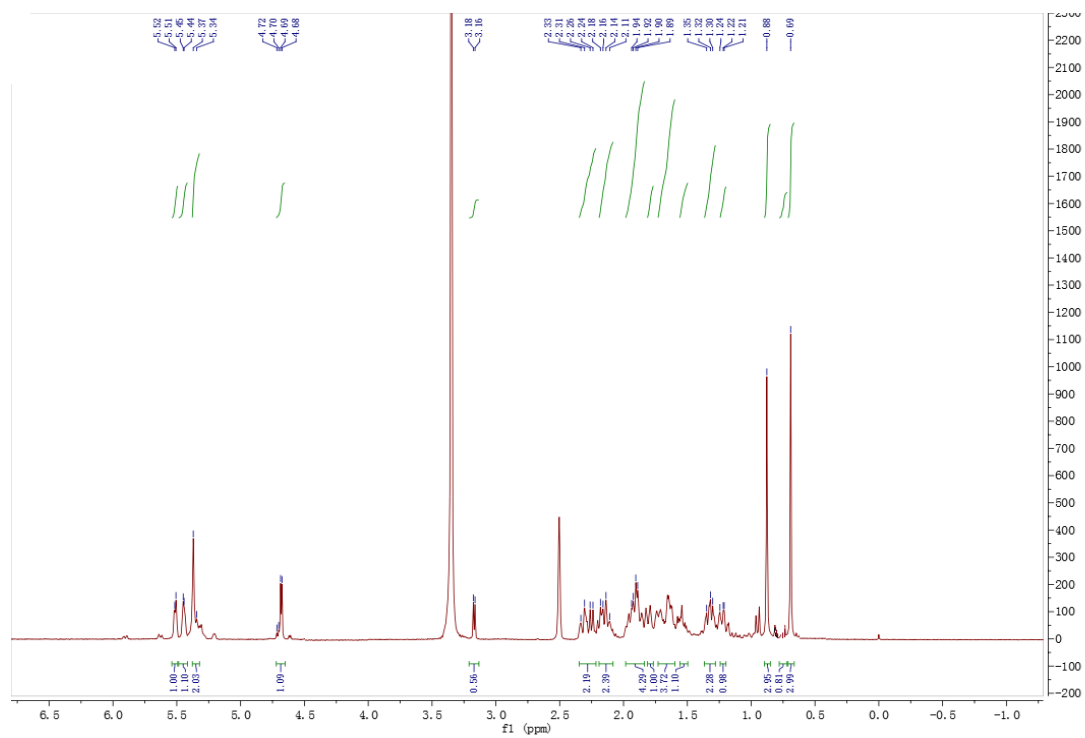
## S3. NMR spectra of compound 4



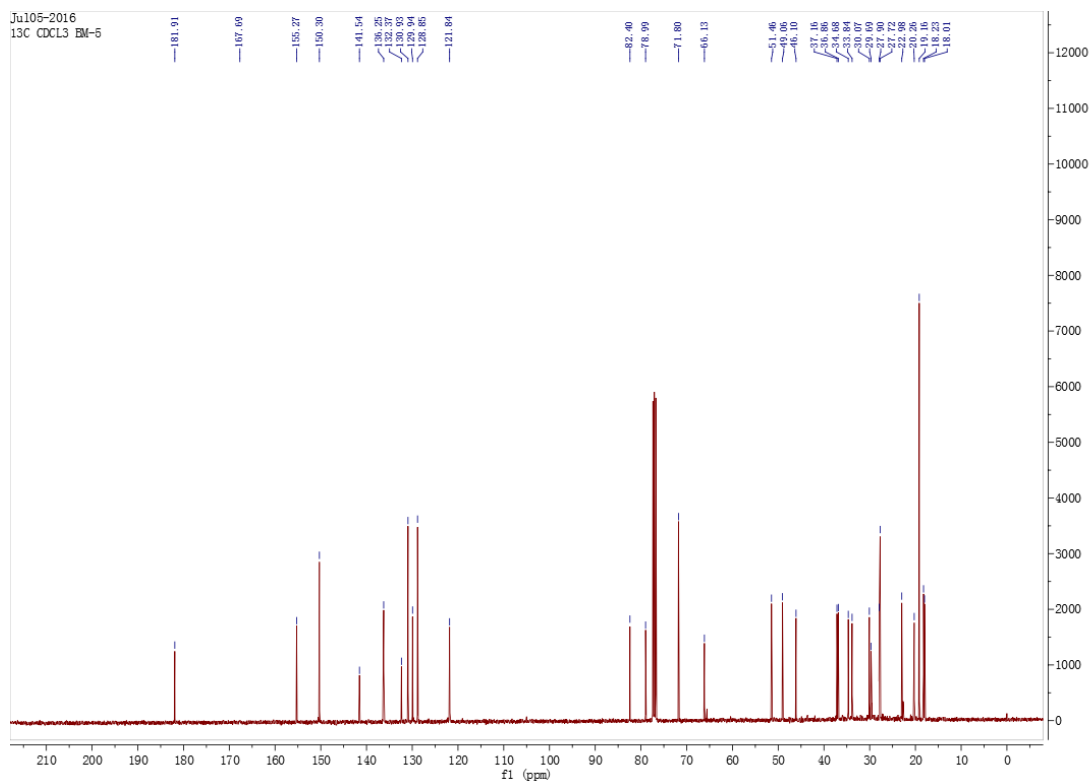
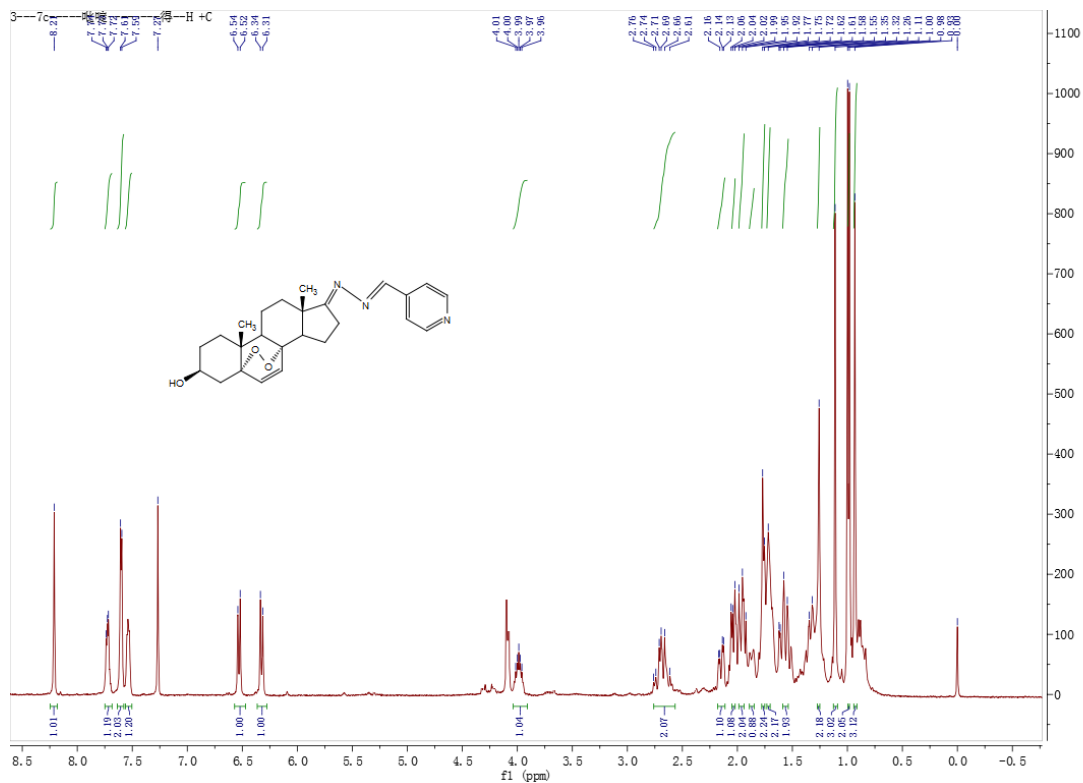
### S4. NMR spectra of compound 5

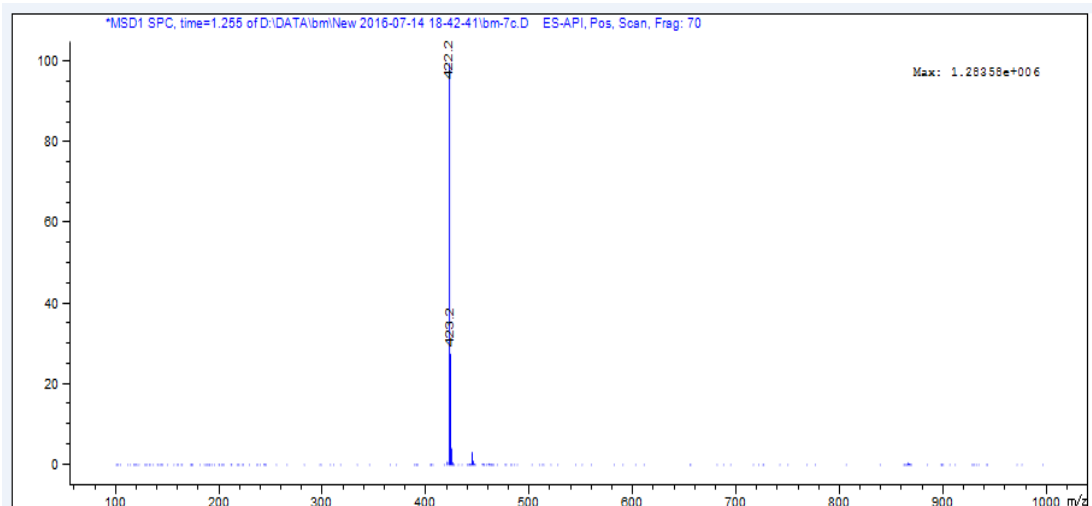


### S5. NMR spectra of compound 6

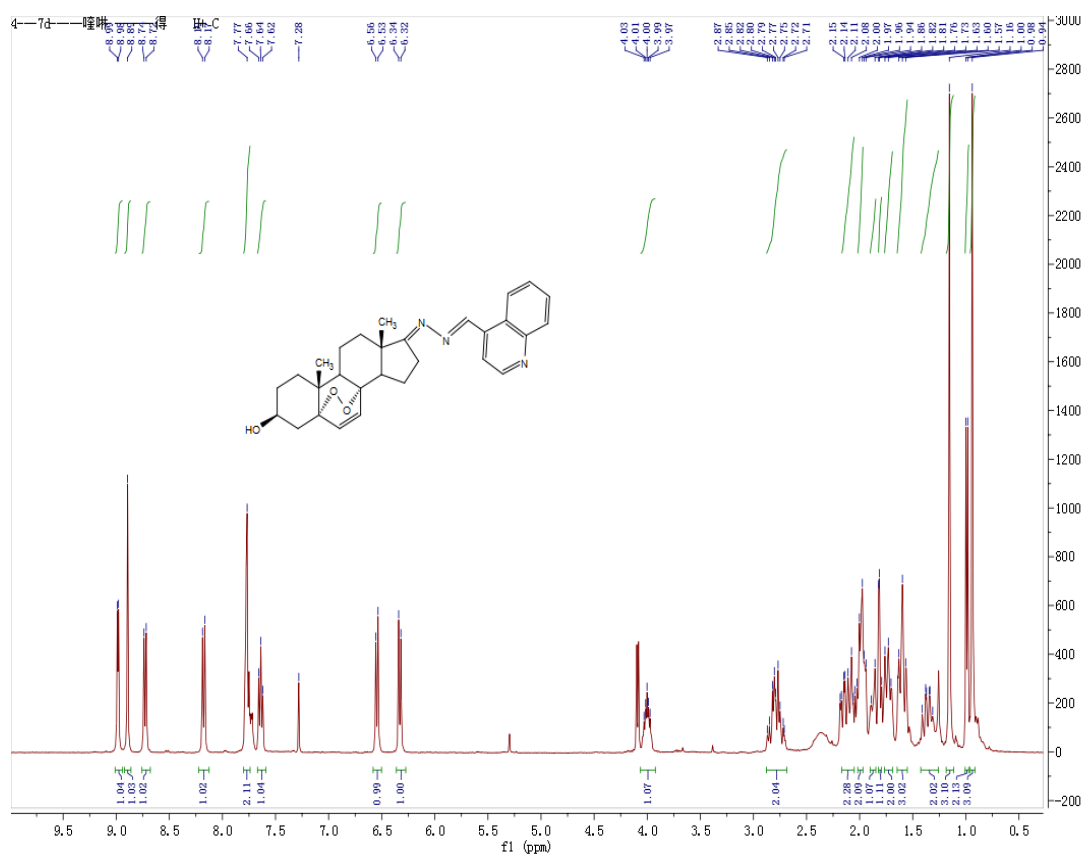


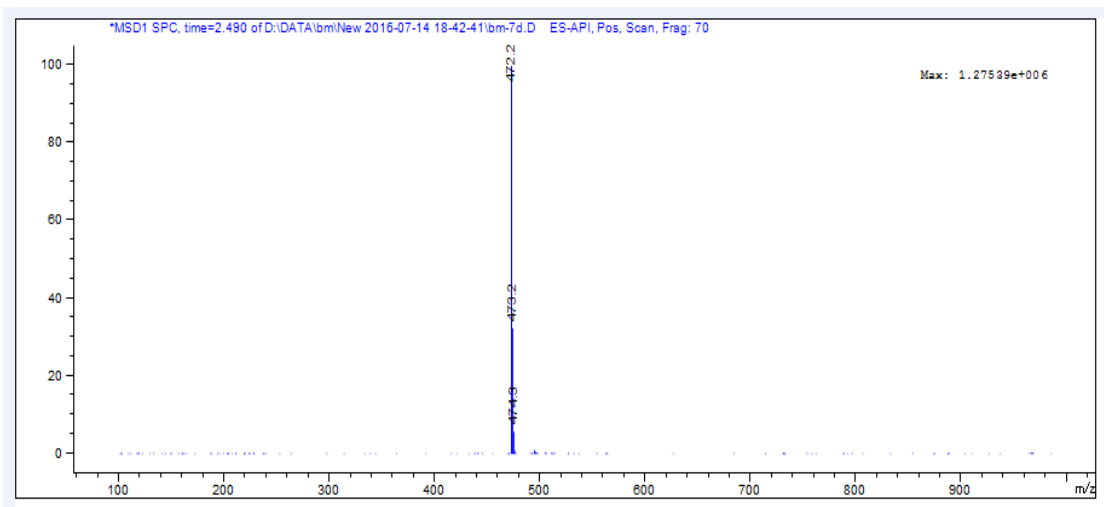
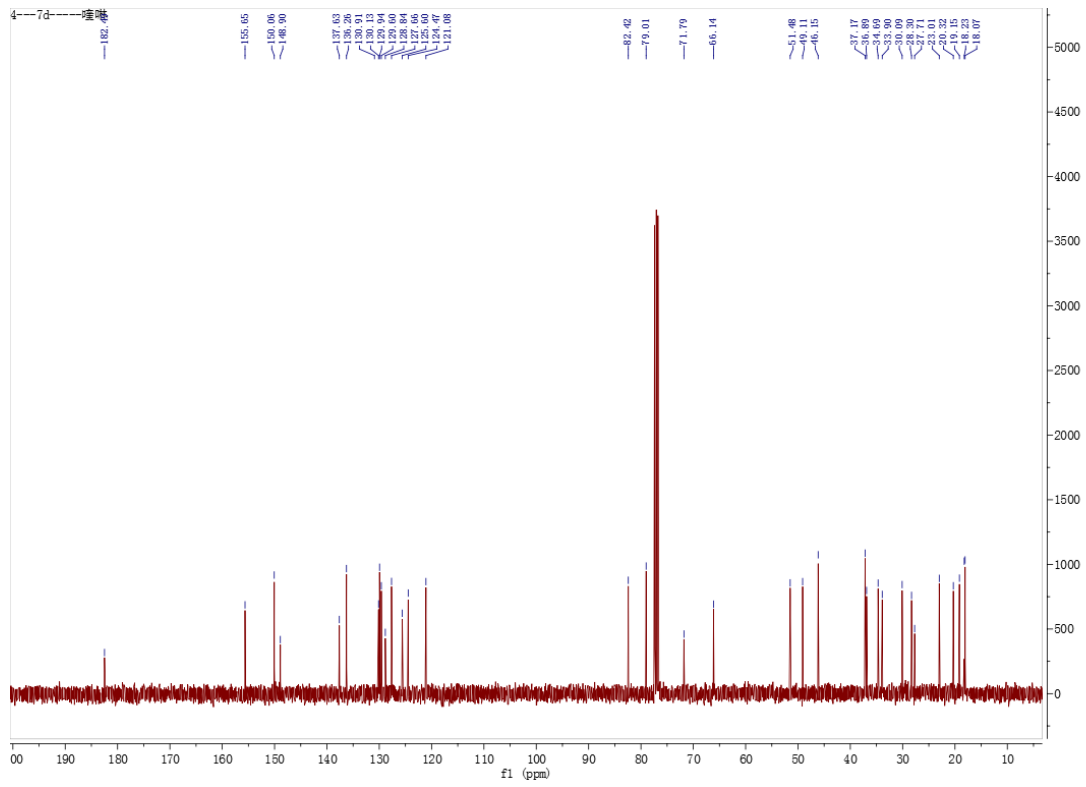
### S6. NMR spectra and LC-MS spectra of compound 8a



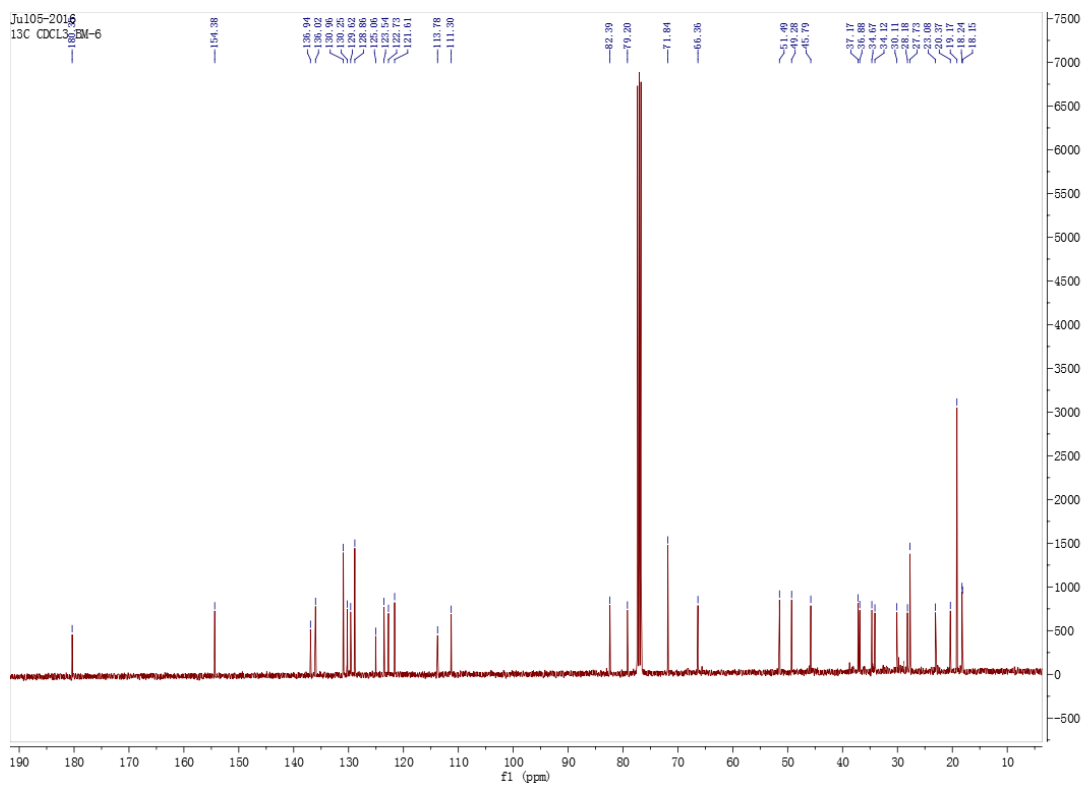
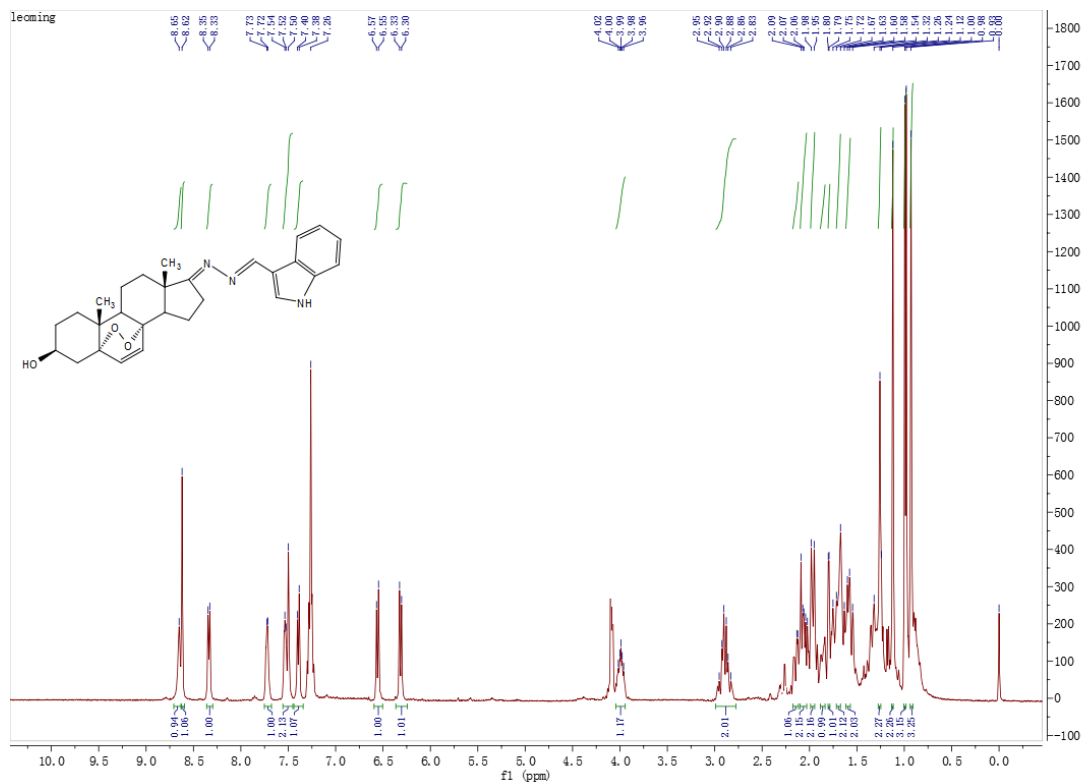


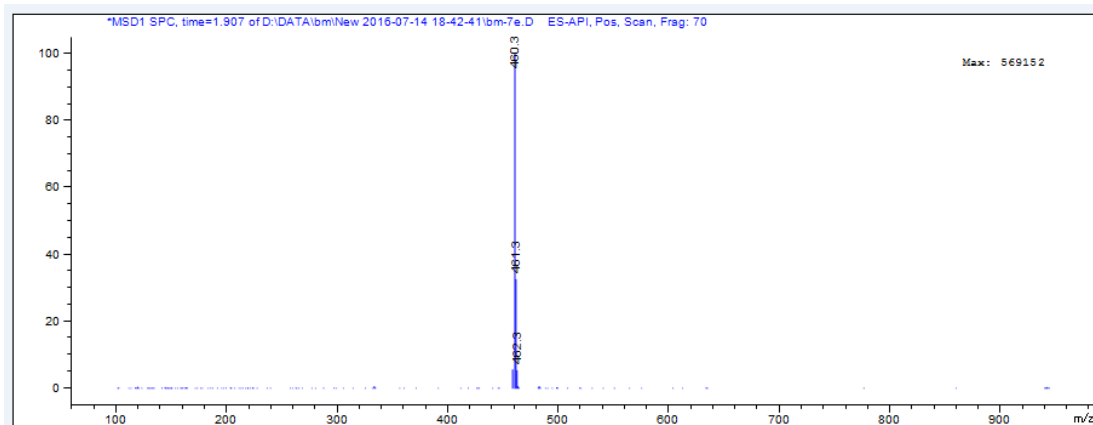
### S7. NMR spectra and LC-MS spectra of compound 8b



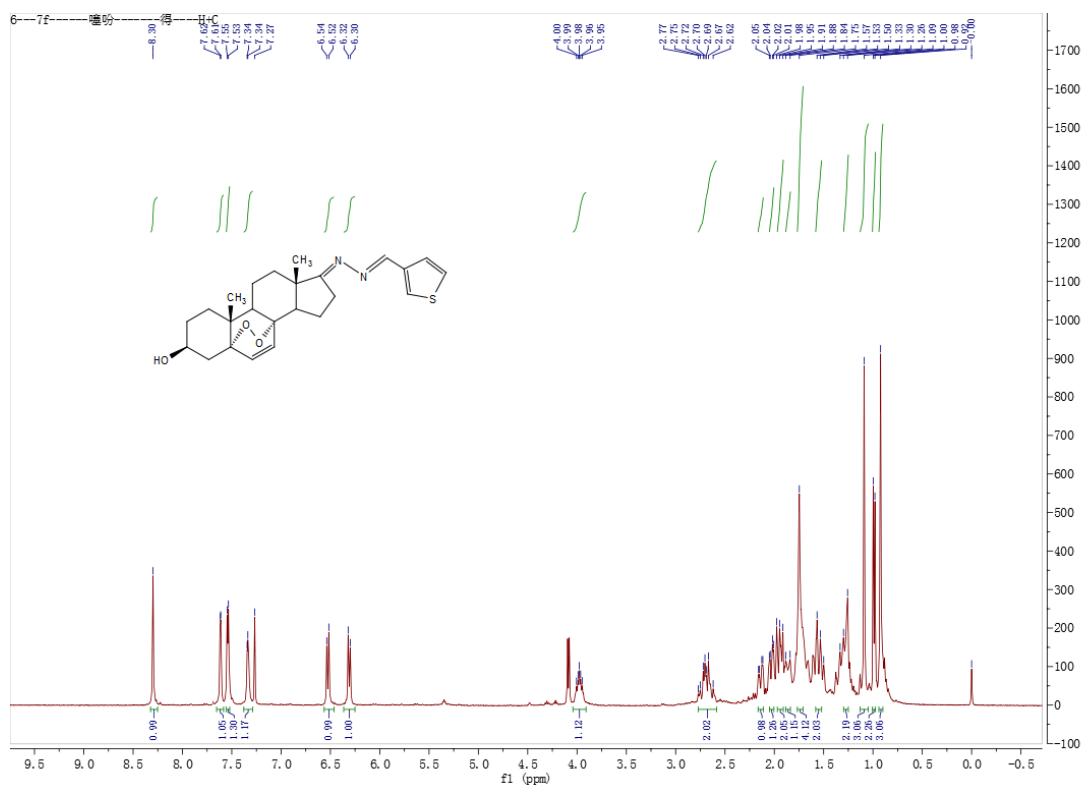


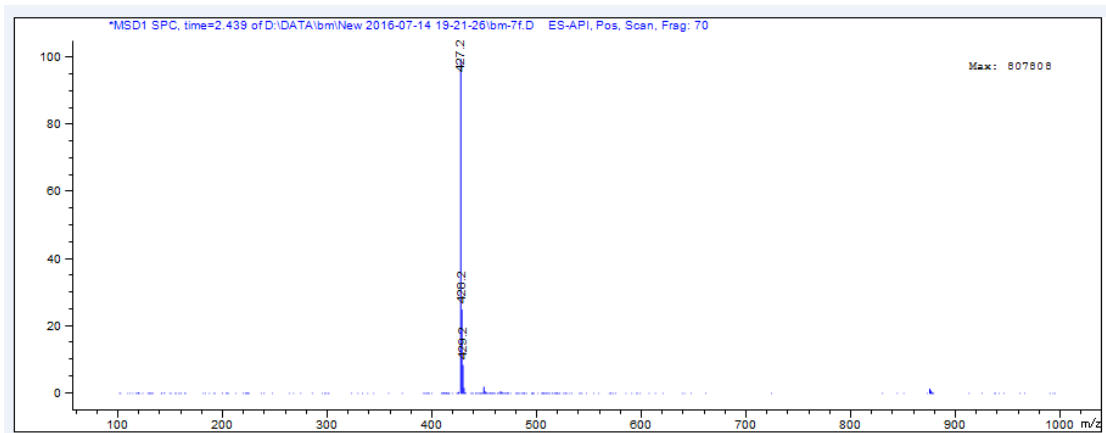
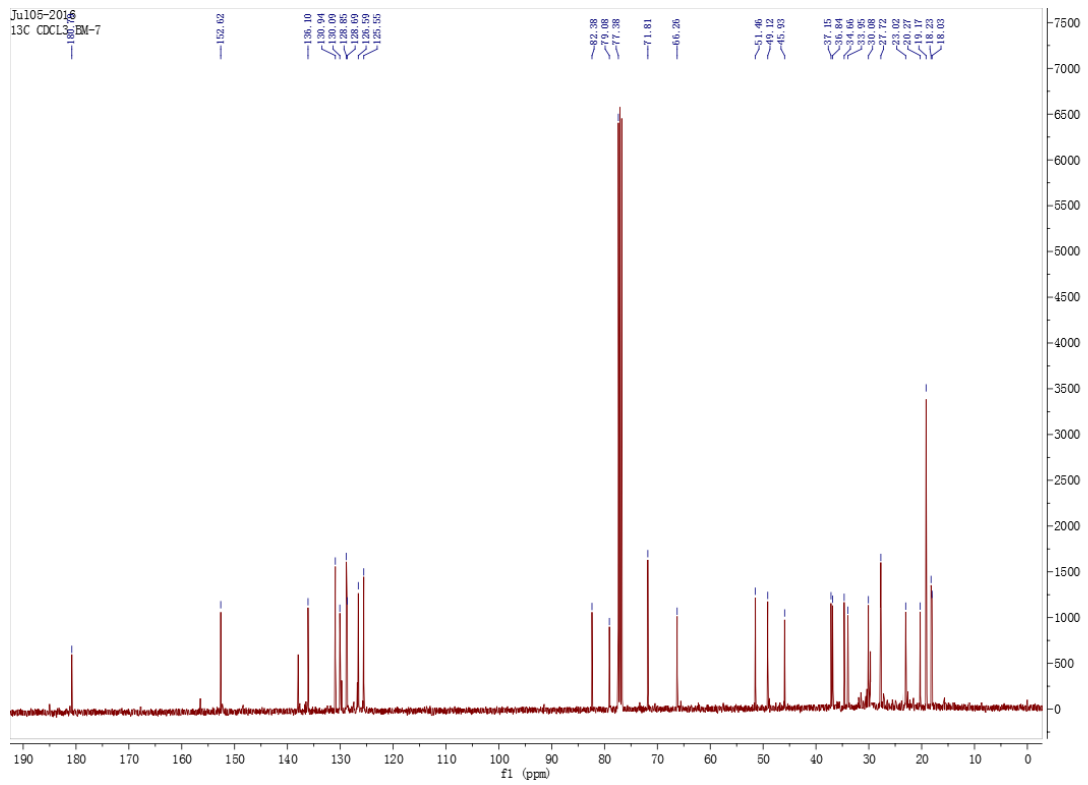
### S8. NMR spectra and LC-MS spectra of compound 8c



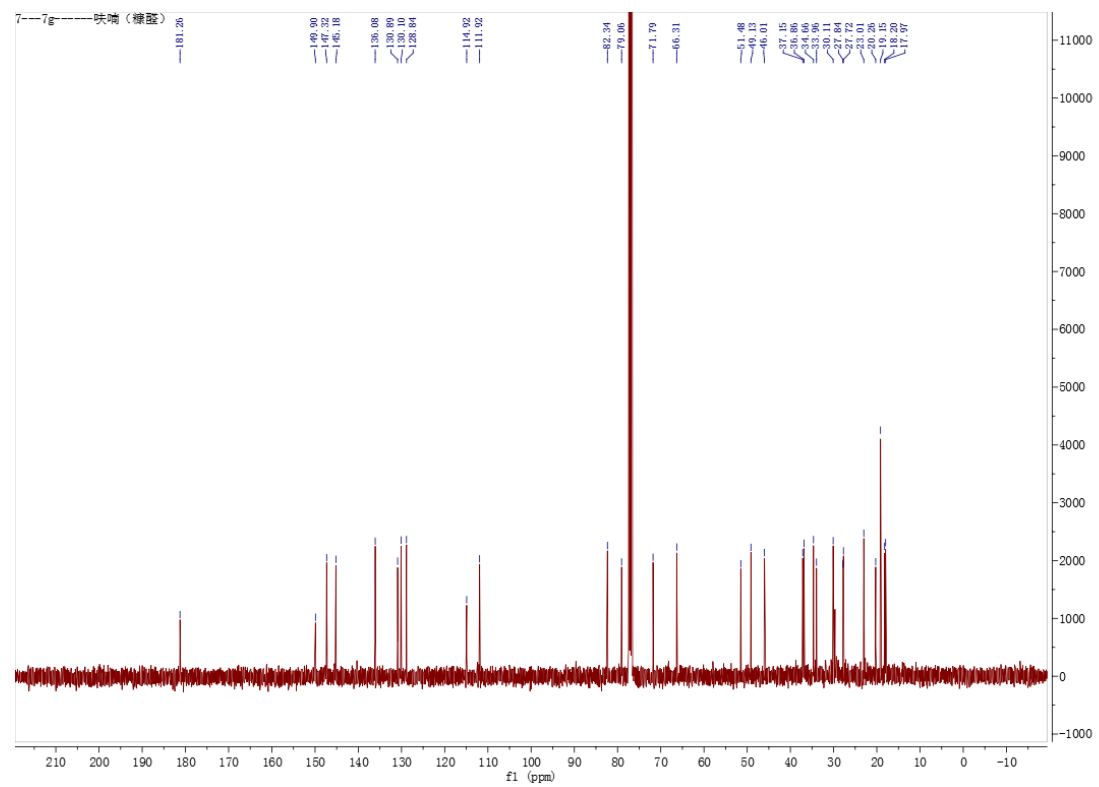
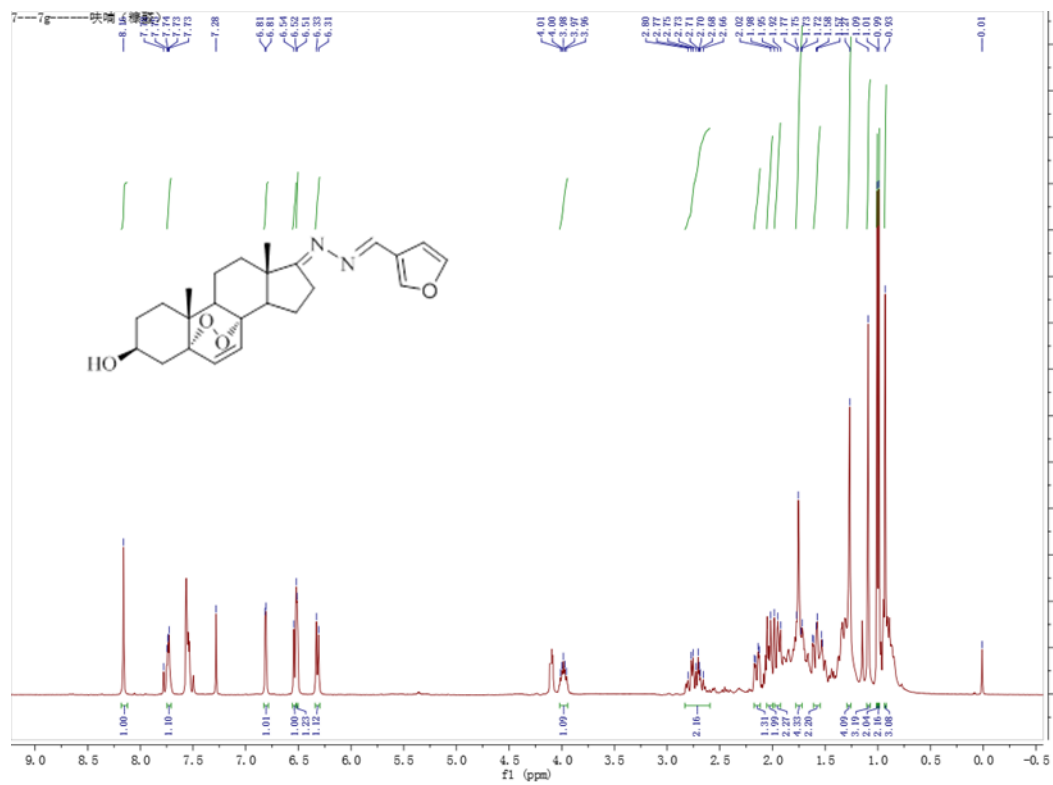


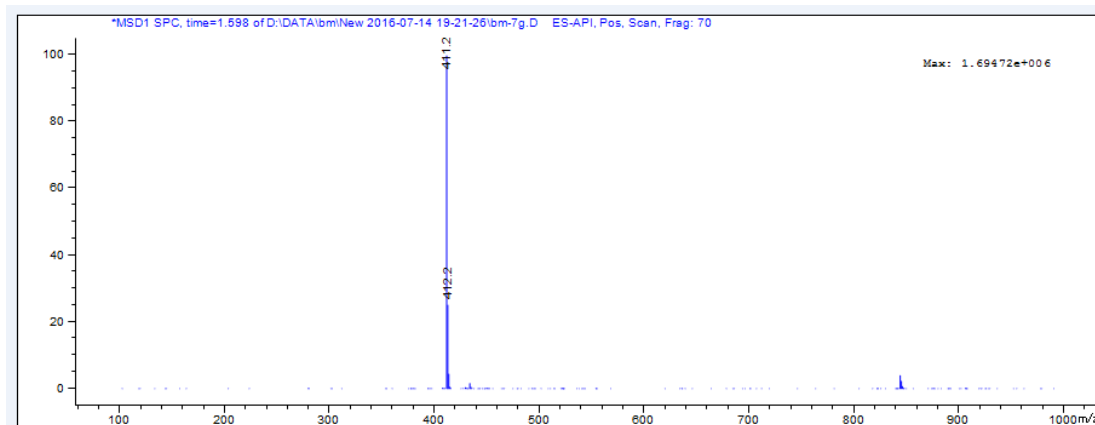
### S9. NMR spectra and LC-MS spectra of compound 8d



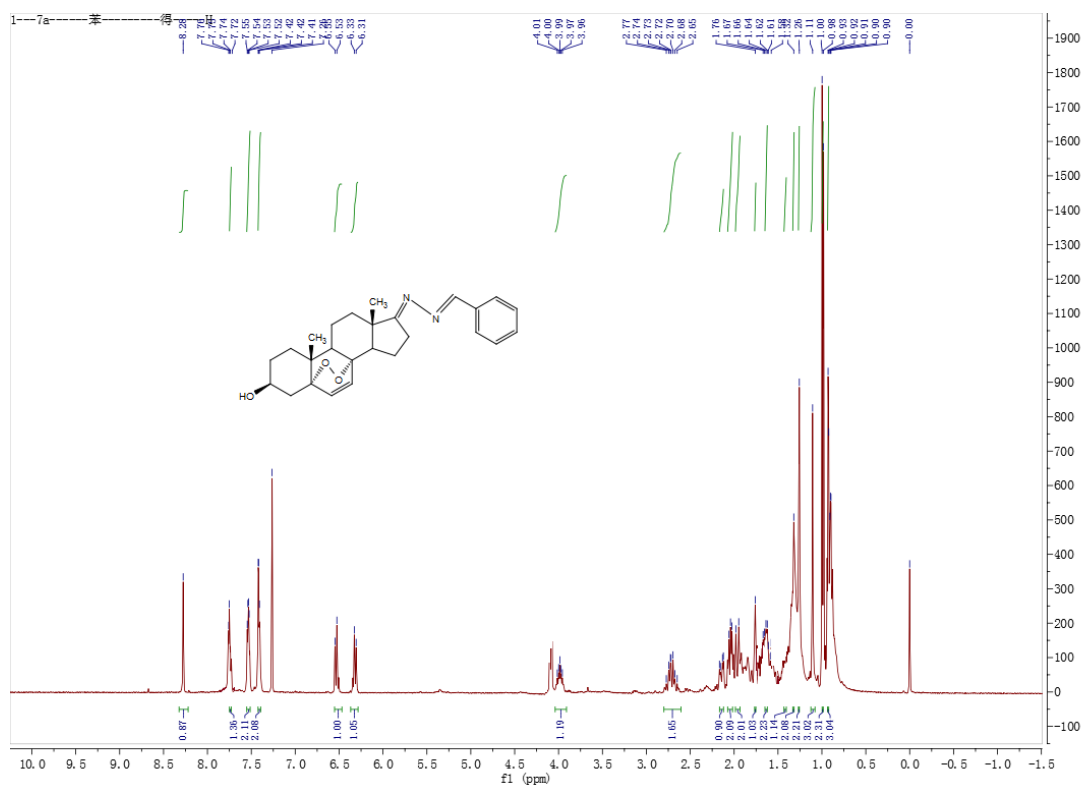


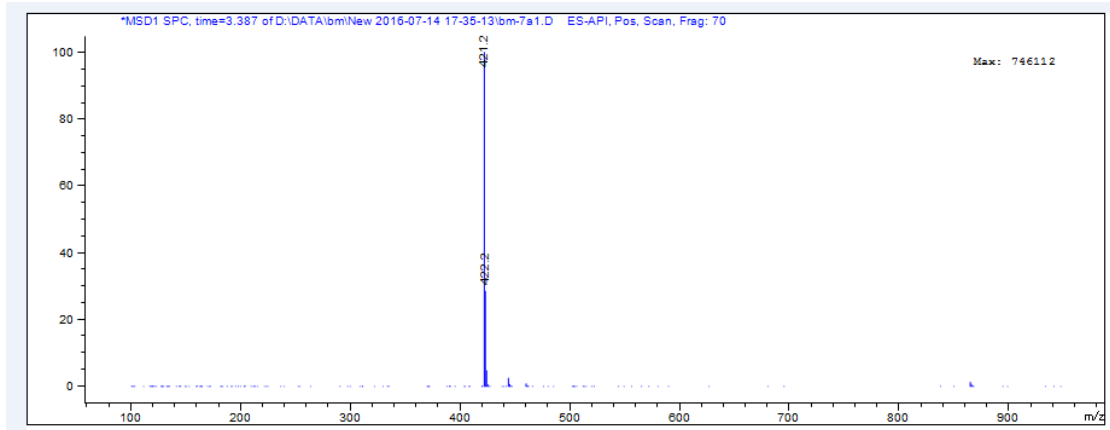
# S10. NMR spectra and LC-MS spectra of compound 8e





### S11. NMR spectra and LC-MS spectra of compound 8f





## S12. NMR spectra and LC-MS spectra of compound 8g

