

Figure S1: ^1H -NMR of lactone 6

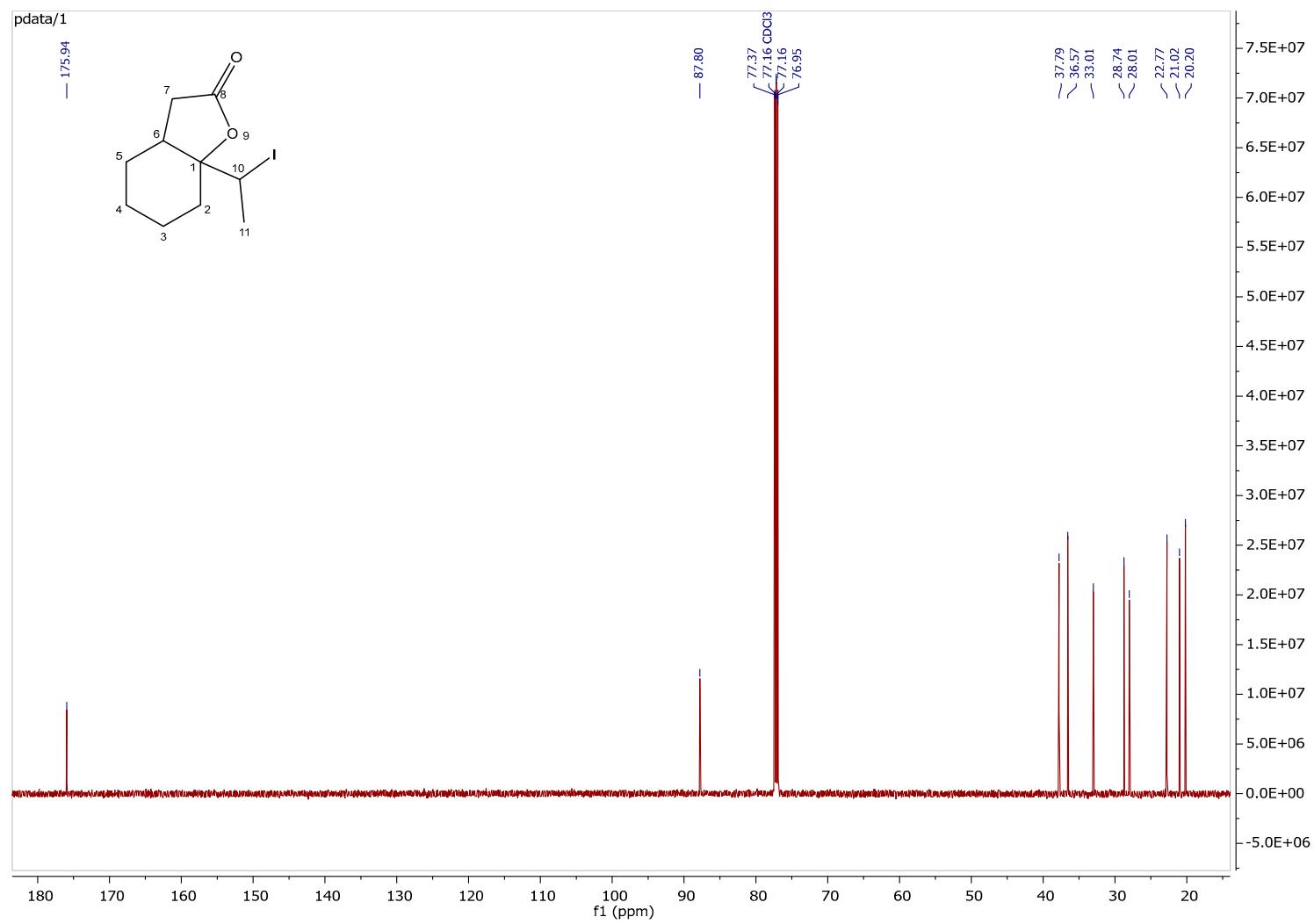


Figure S2: ^{13}C -NMR of lactone 6

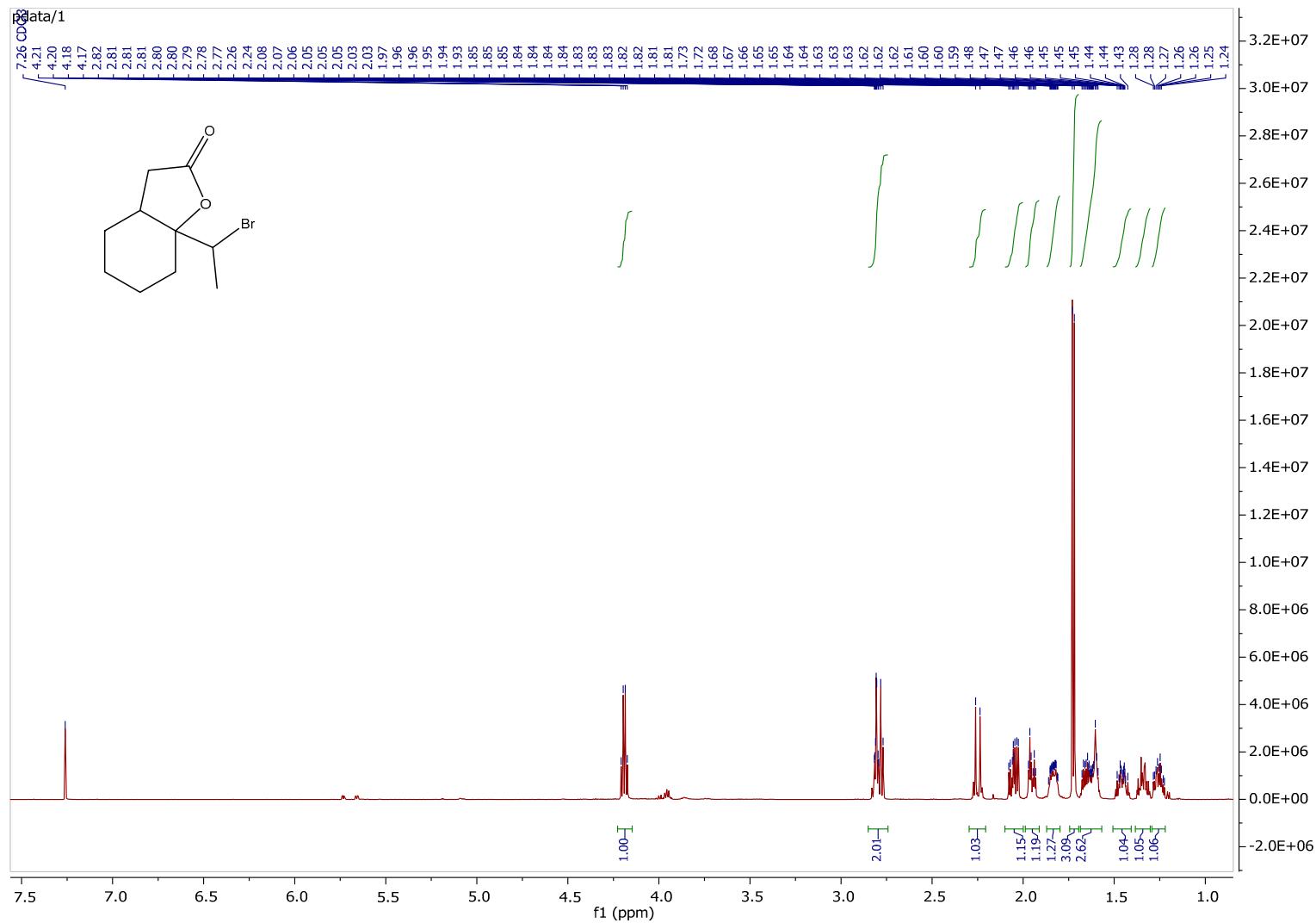


Figure S3: ¹H-NMR of lactone 7

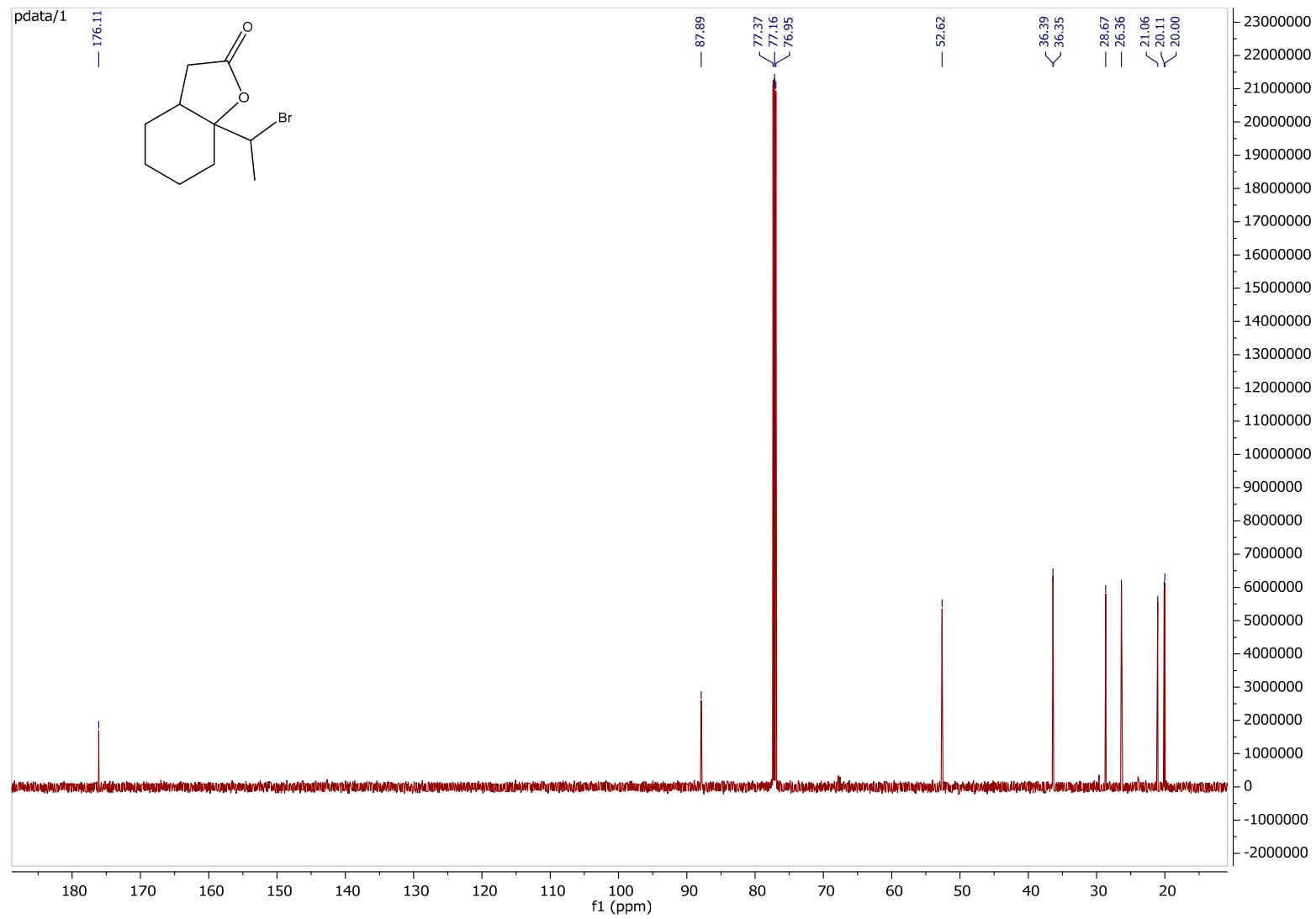


Figure S4: ^{13}C -NMR of lactone 7

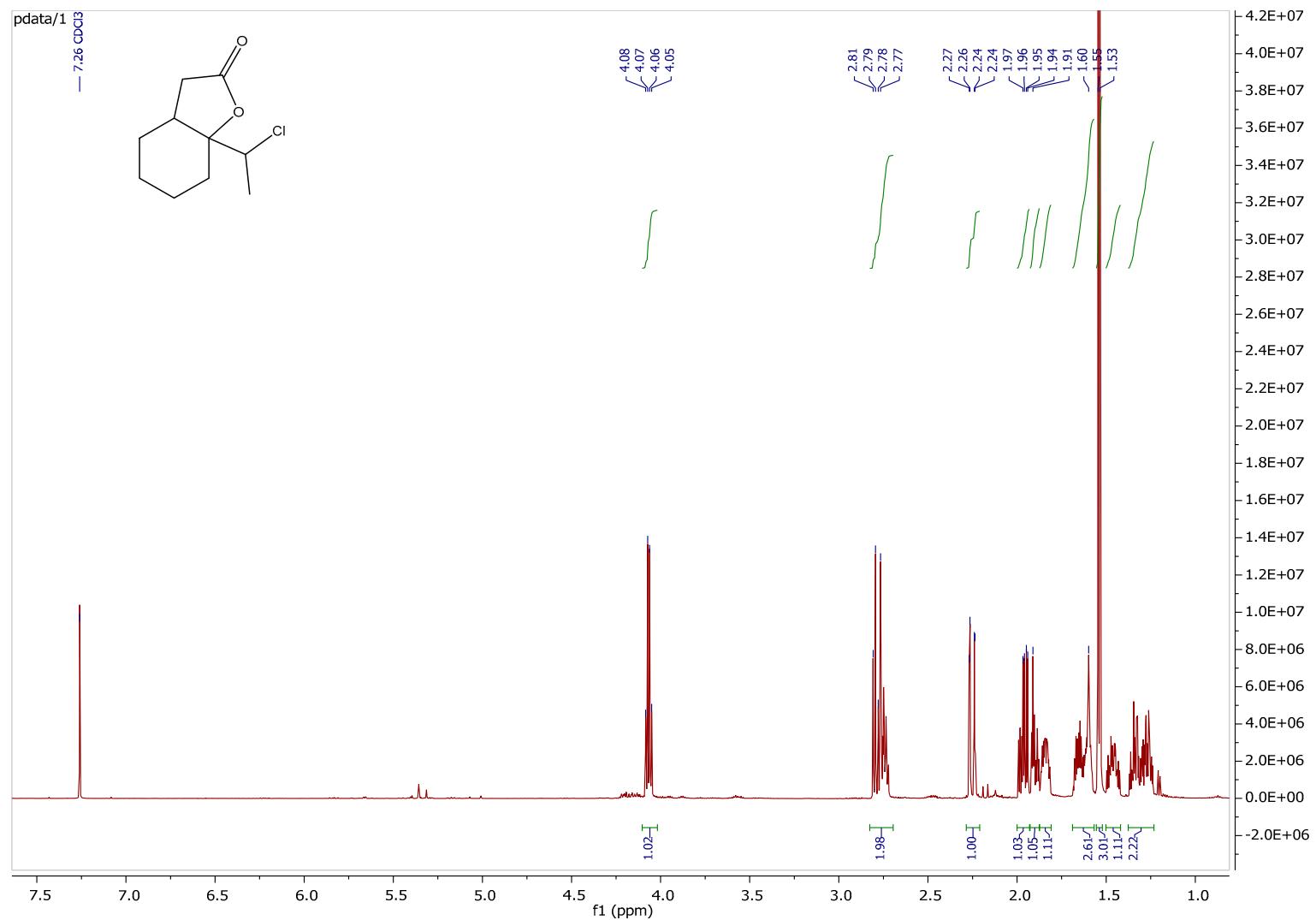


Figure S5: ¹H-NMR of lactone 8

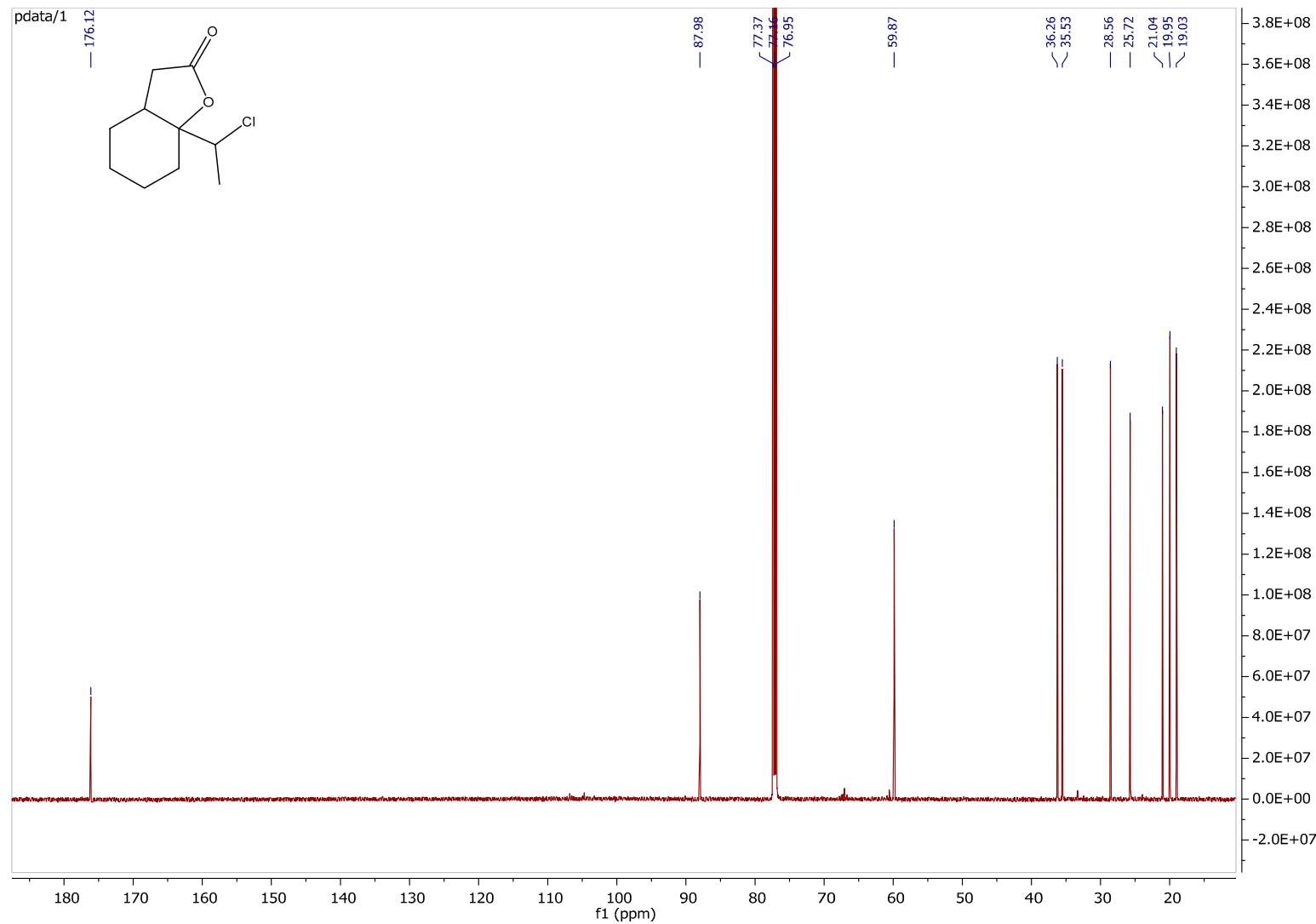


Figure S6: ^{13}C -NMR of lactone 8

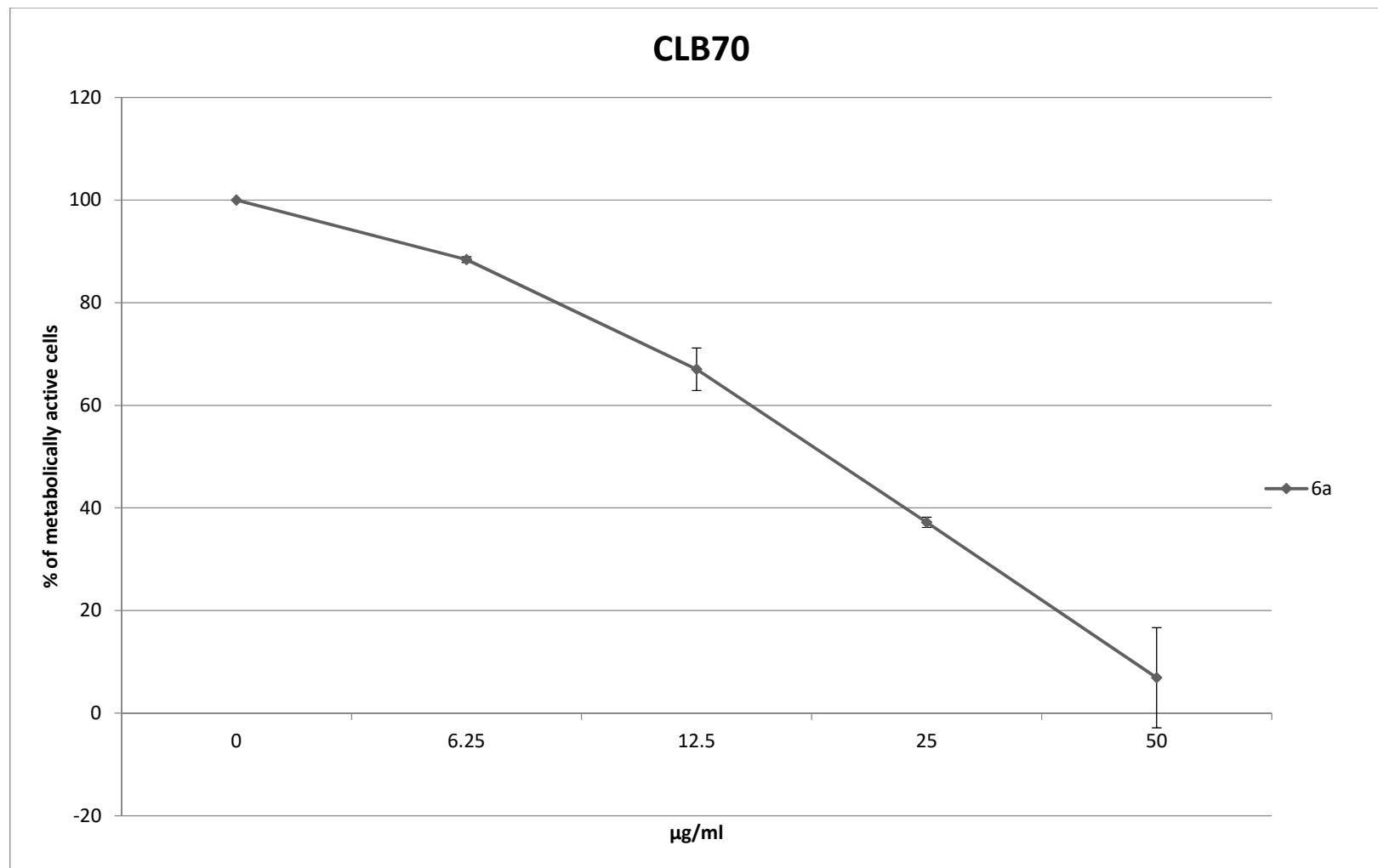


Figure S7: Dose-response curve used to calculate IC_{50} for lactone **6a** and CBL70 cell line.

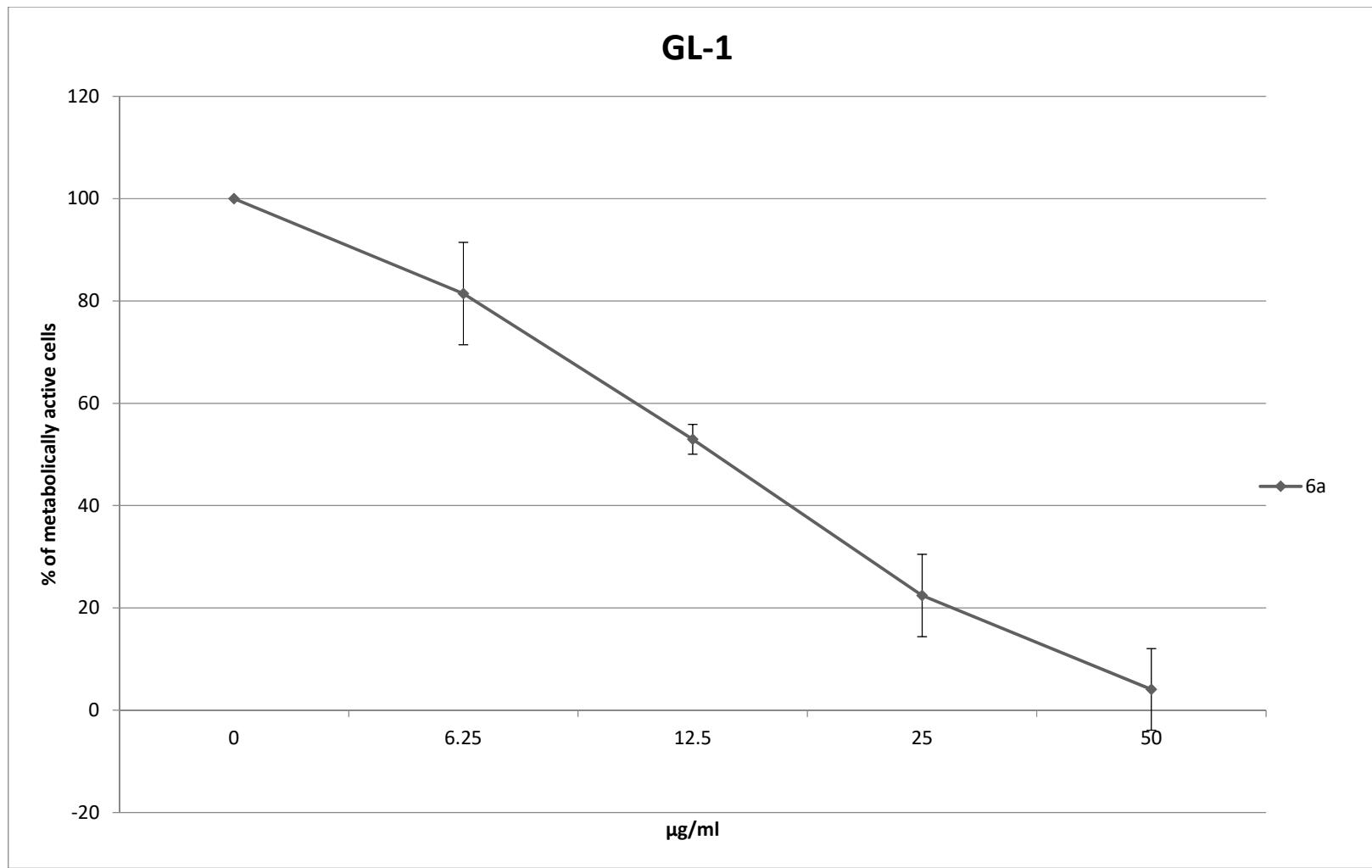


Figure S8:Dose-response curve used to calculate IC₅₀ for lactone **6a** and GL-1 cell line.

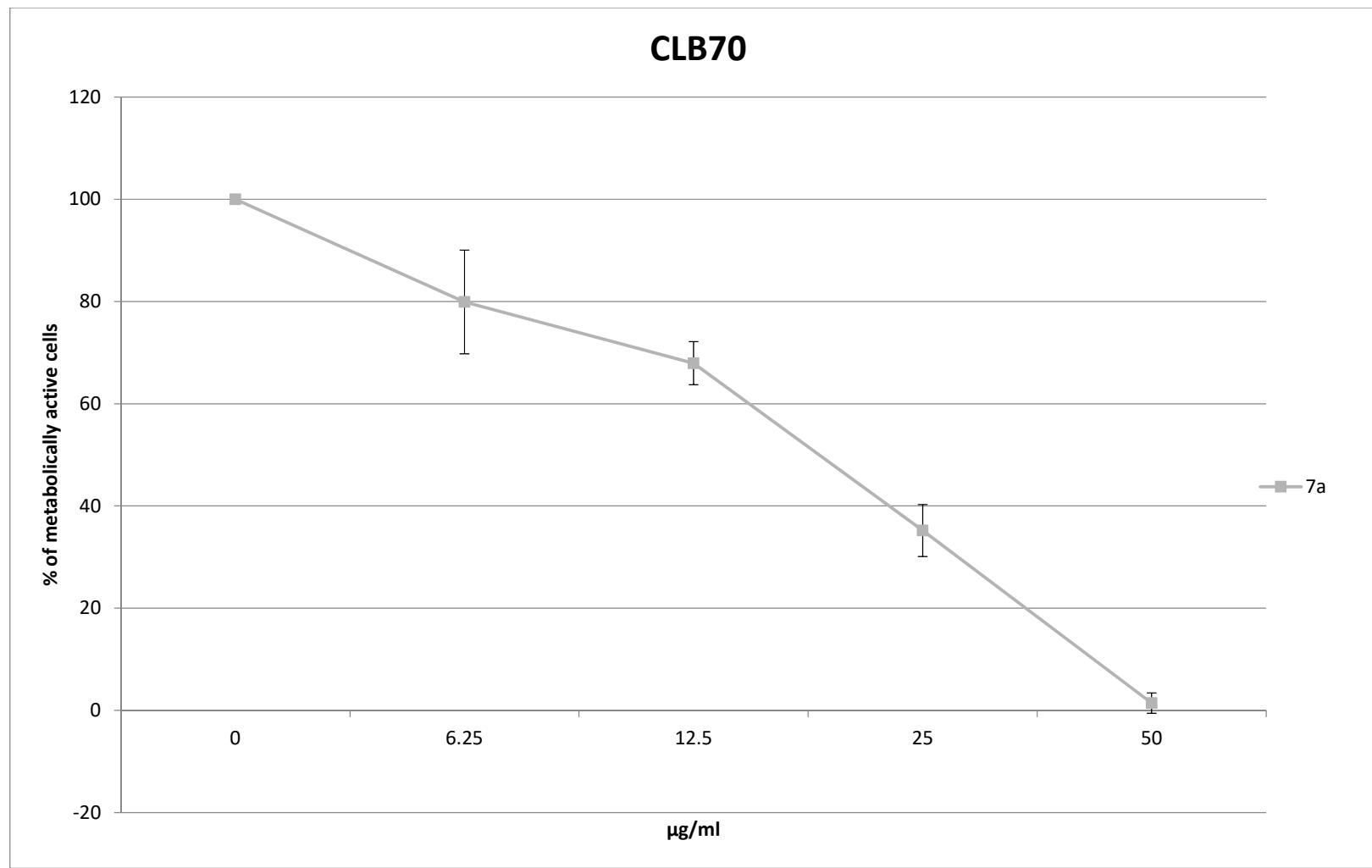


Figure S9:Dose-response curve used to calculate IC₅₀ for lactone **7a** and CBL70 cell line.

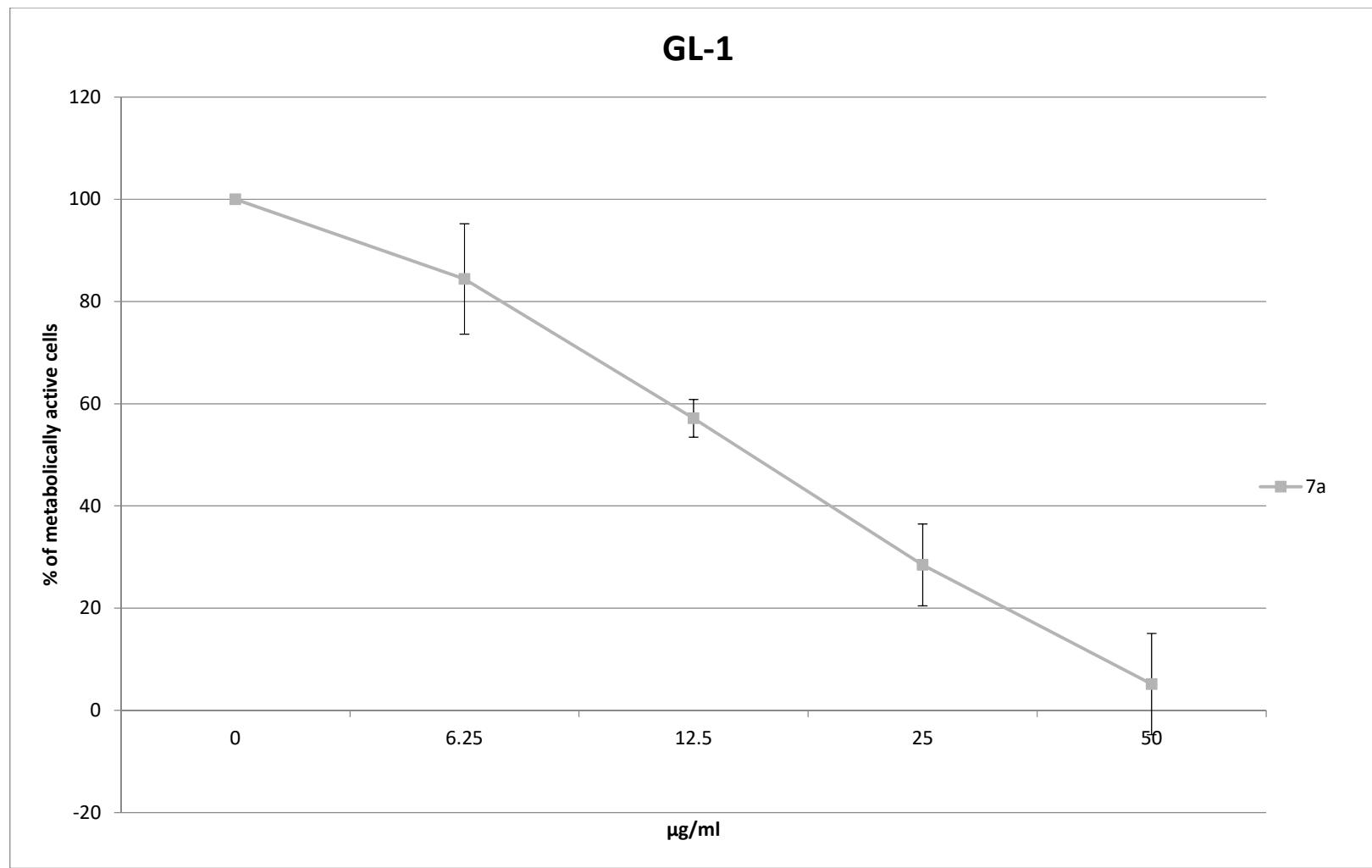


Figure S10:Dose-response curve used to calculate IC₅₀ for lactone **7a** and GL-1 cell line.

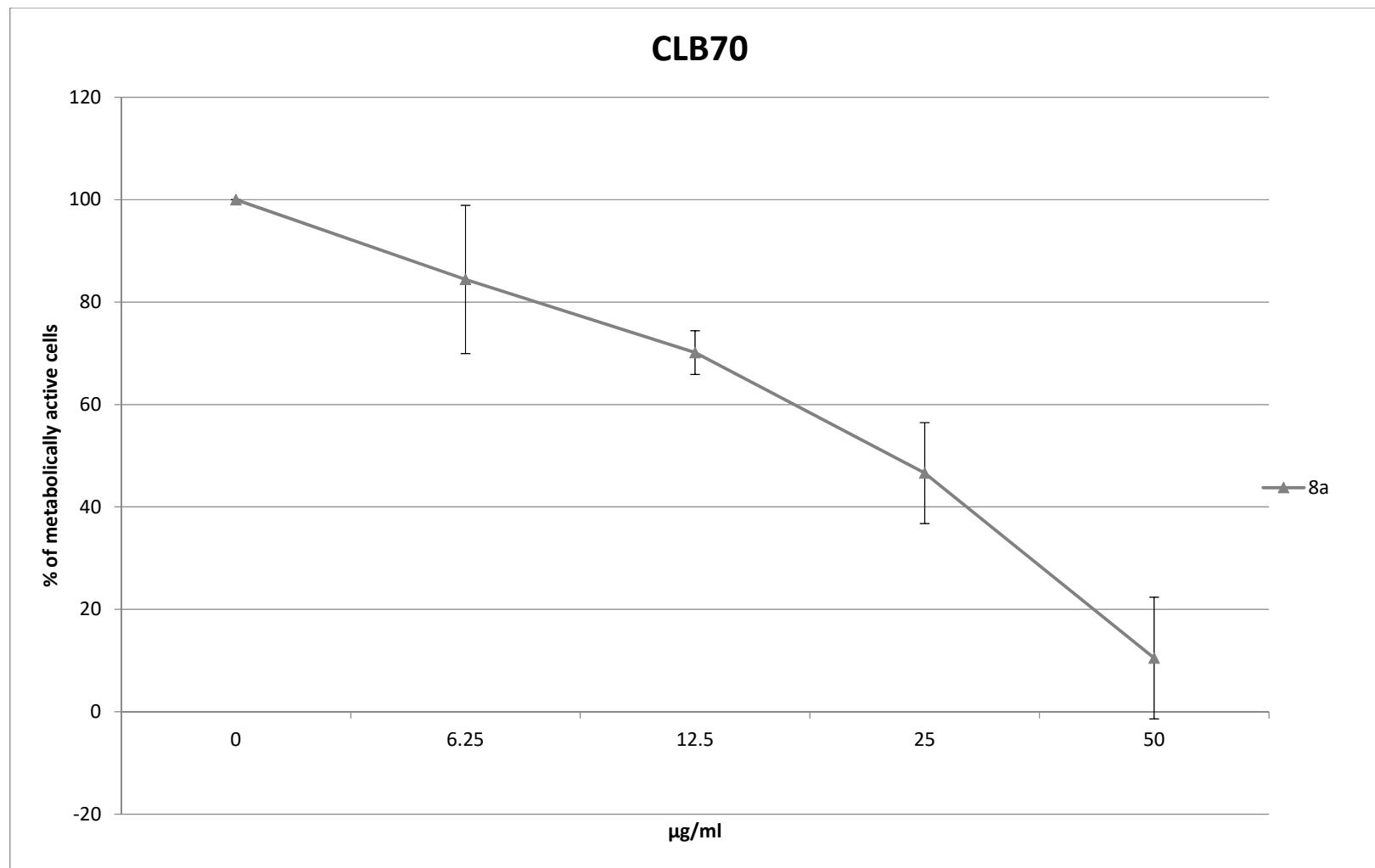


Figure S11:Dose-response curve used to calculate IC₅₀ for lactone **8a** and CBL70 cell line.

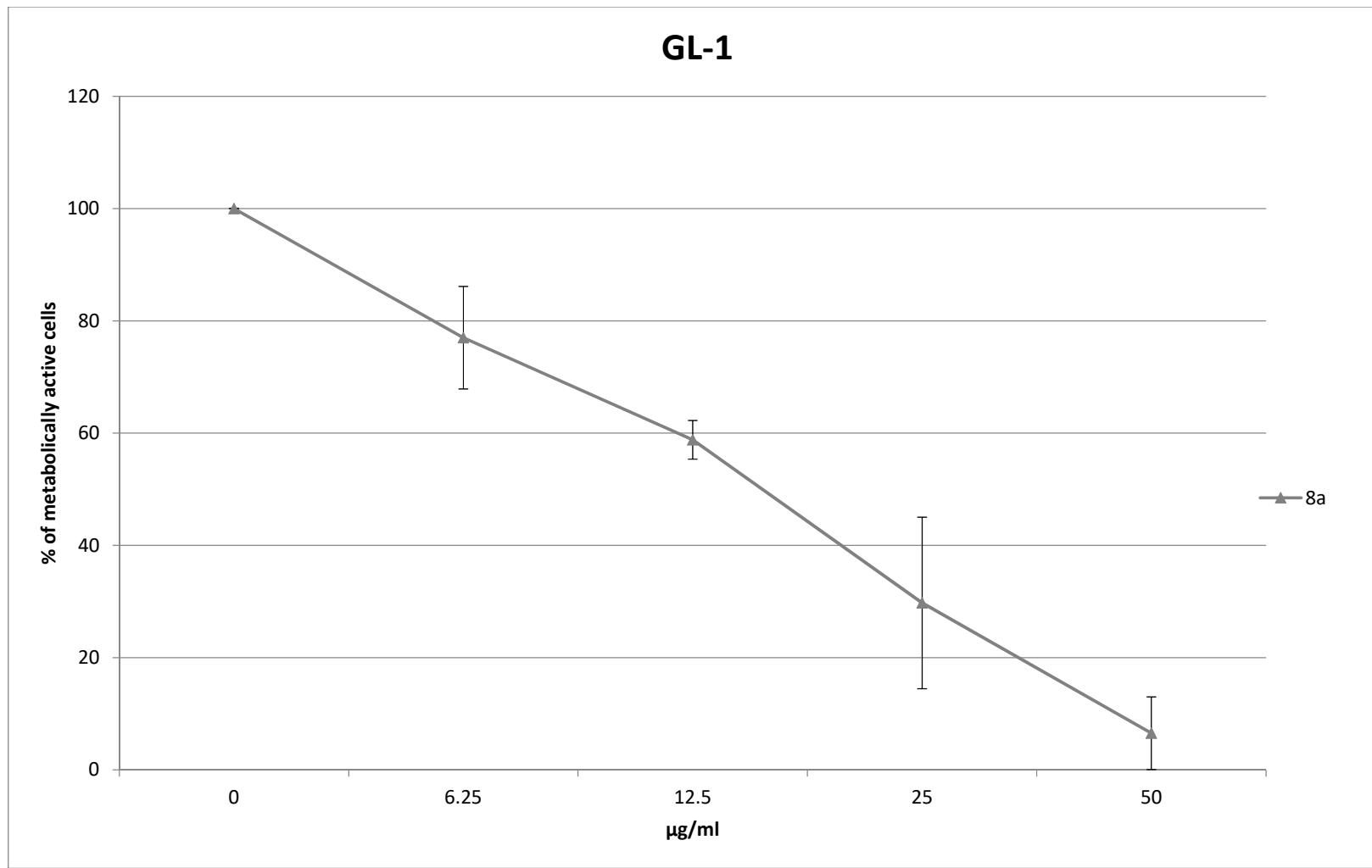


Figure S12 Dose-response curve used to calculate IC₅₀ for lactone **8a** and GL-1 cell line.

CLB70

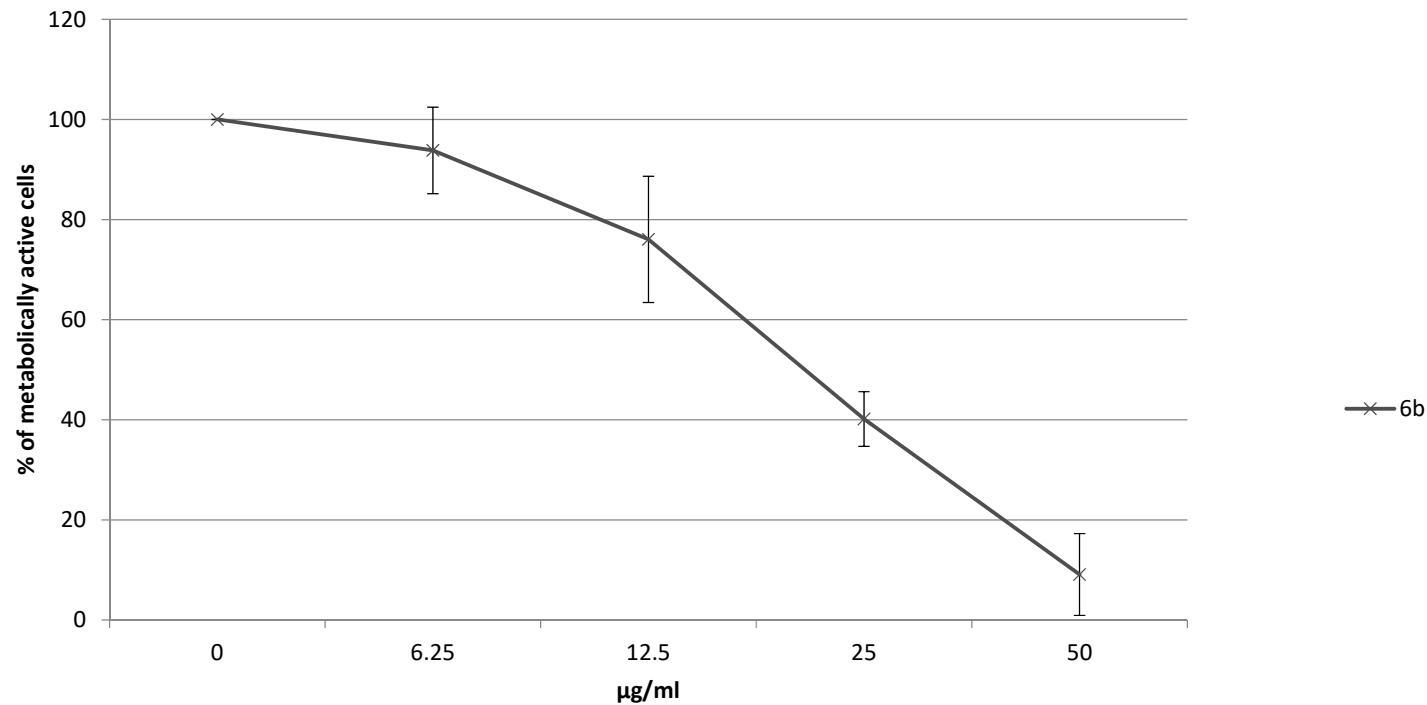


Figure S13:Dose-response curve used to calculate IC₅₀ for lactone **6b** and CBL70 cell line.

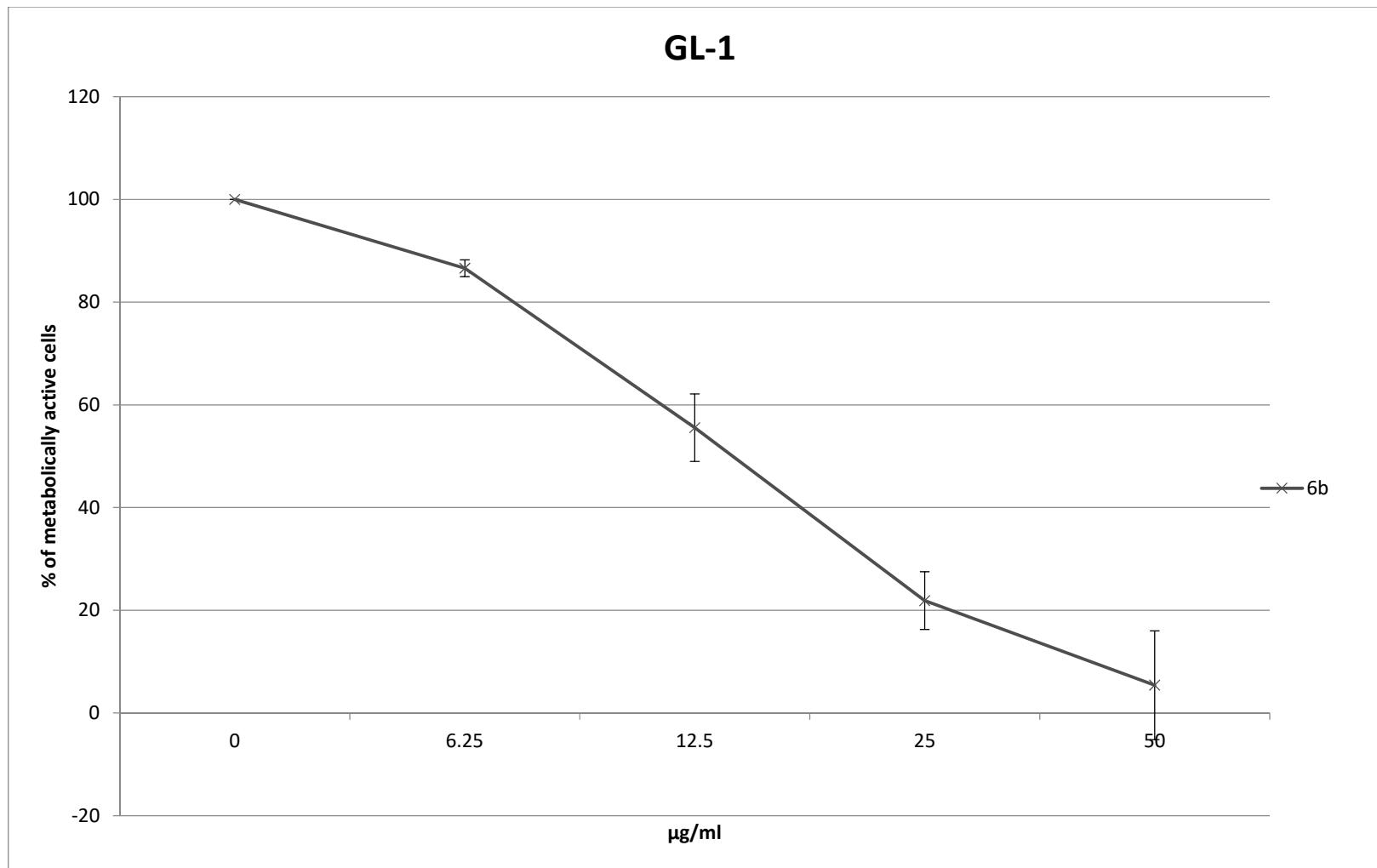


Figure S14:Dose-response curve used to calculate IC₅₀ for lactone **6b** and GL-1 cell line.

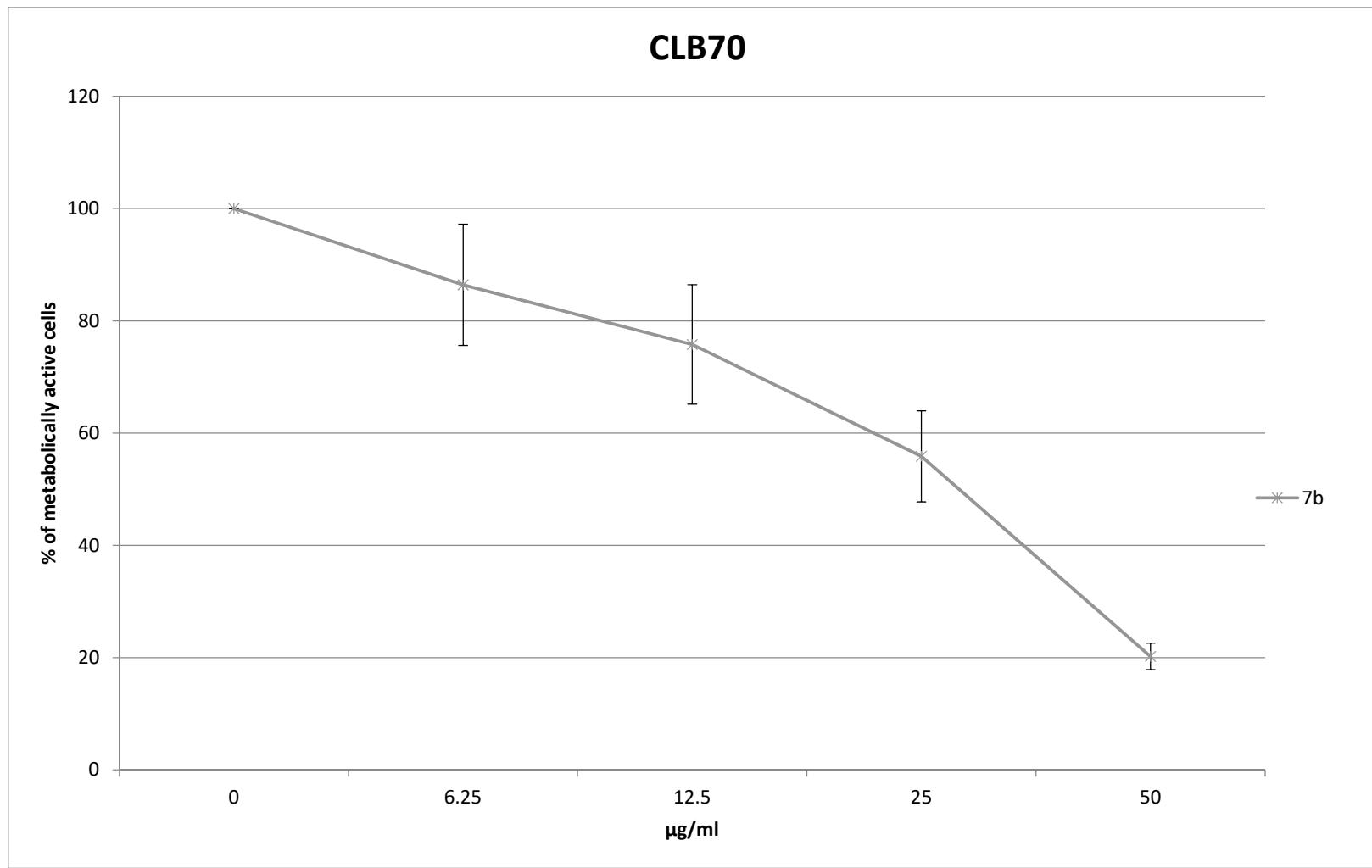


Figure S15:Dose-response curve used to calculate IC₅₀ for lactone **7b** and CBL70 cell line.

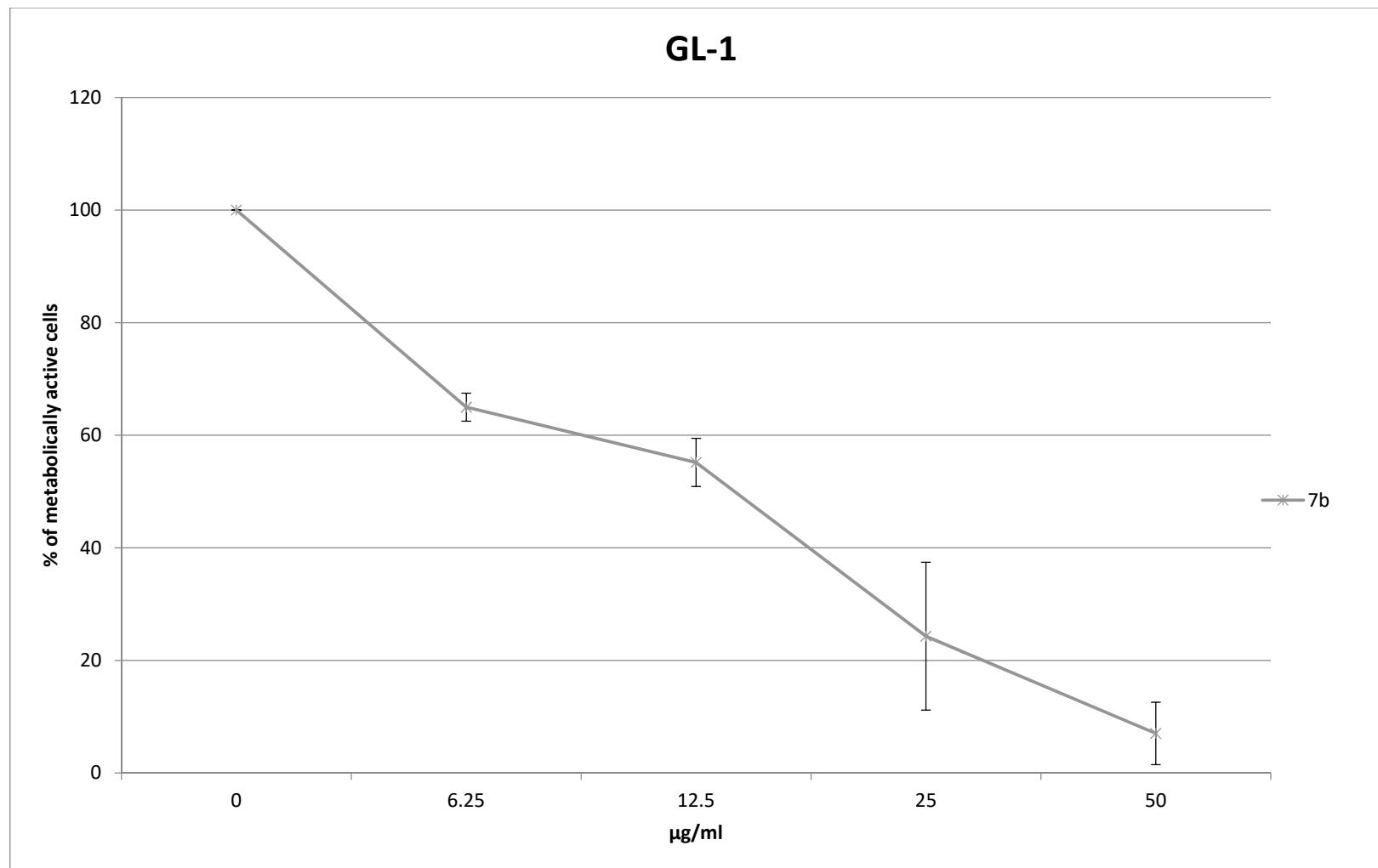


Figure S16:Dose-response curve used to calculate IC₅₀ for lactone **7b** and GL-1 cell line.

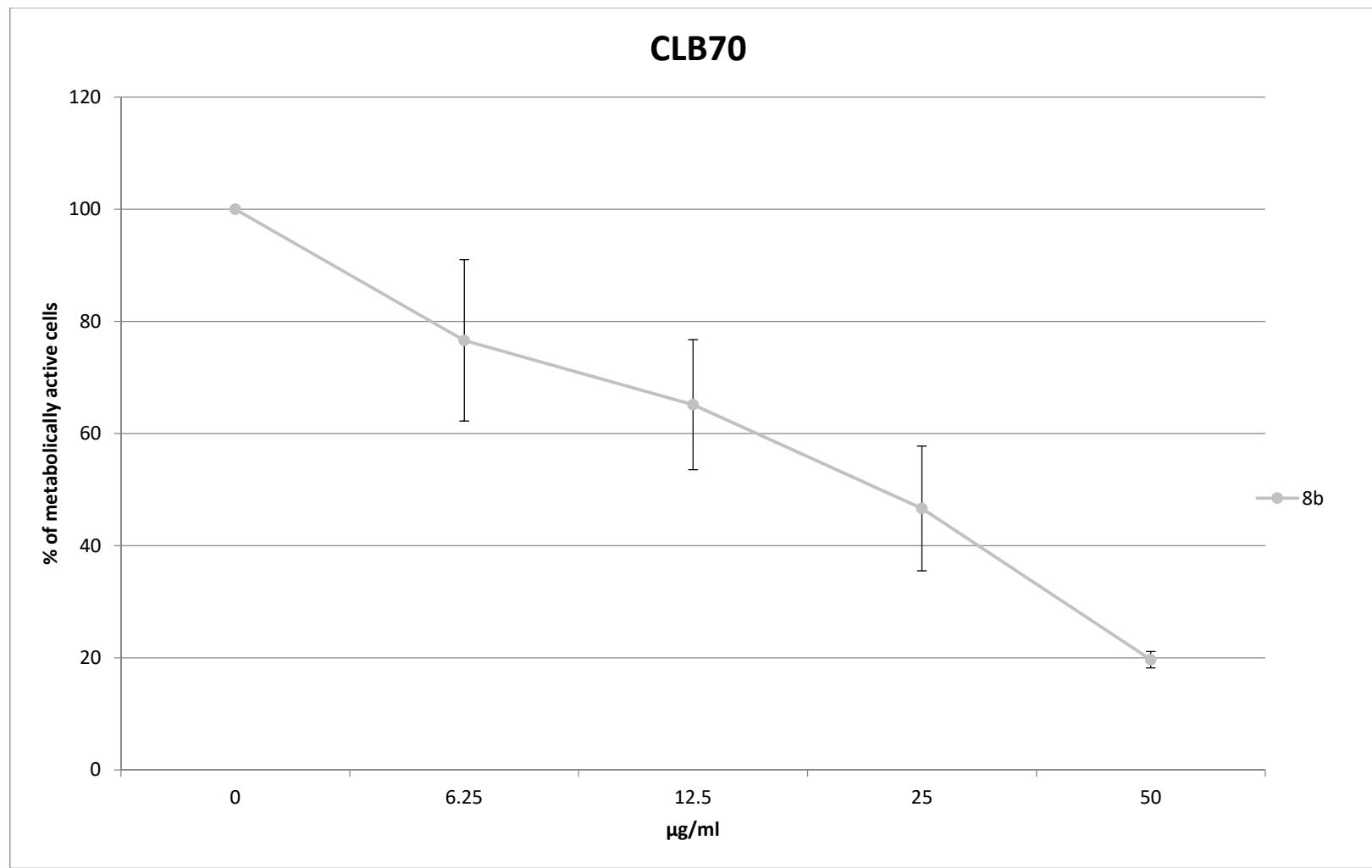


Figure S17:Dose-response curve used to calculate IC₅₀ for lactone **8b** and CBL70 cell line.

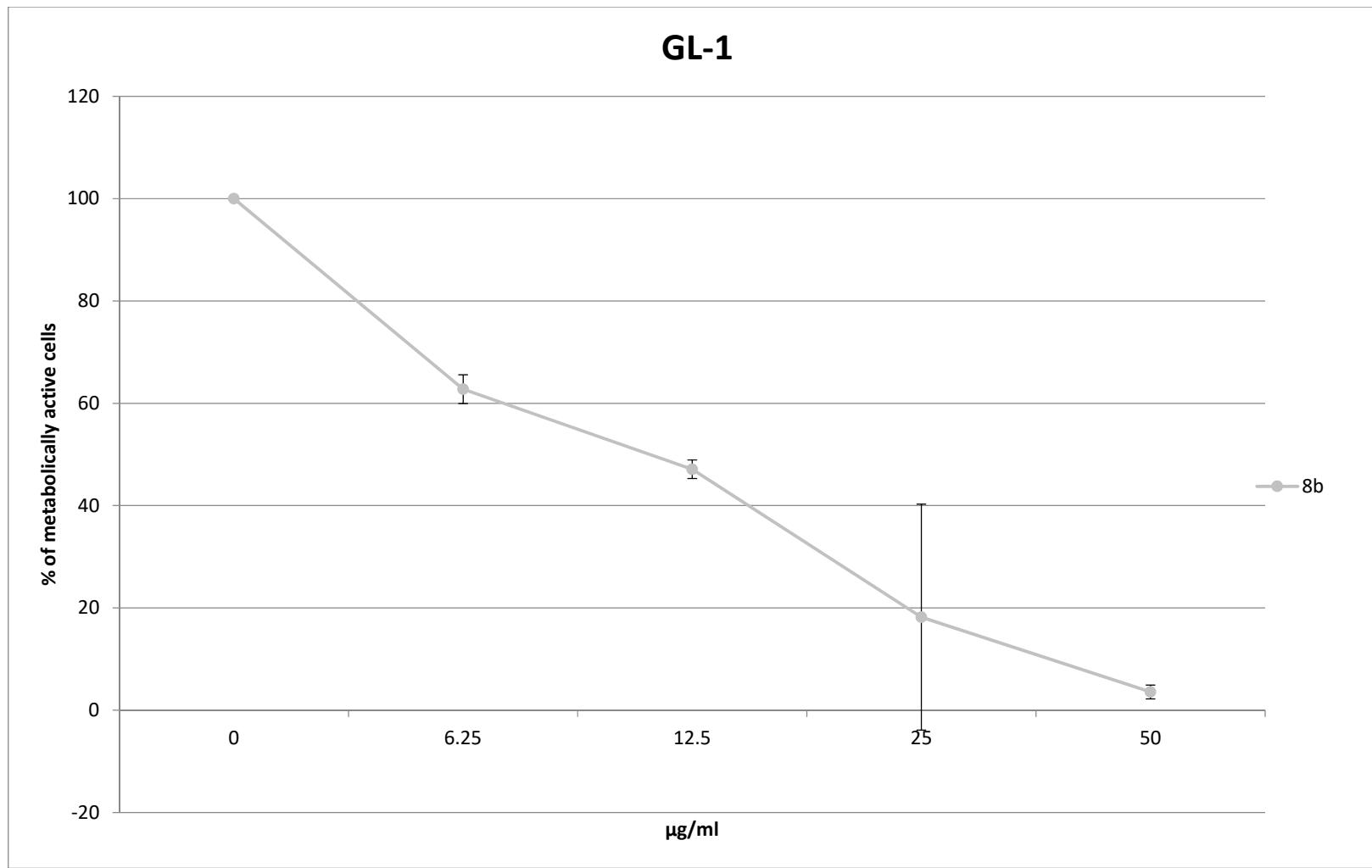


Figure S18:Dose-response curve used to calculate IC₅₀ for lactone **8b** and GL-1 cell line.

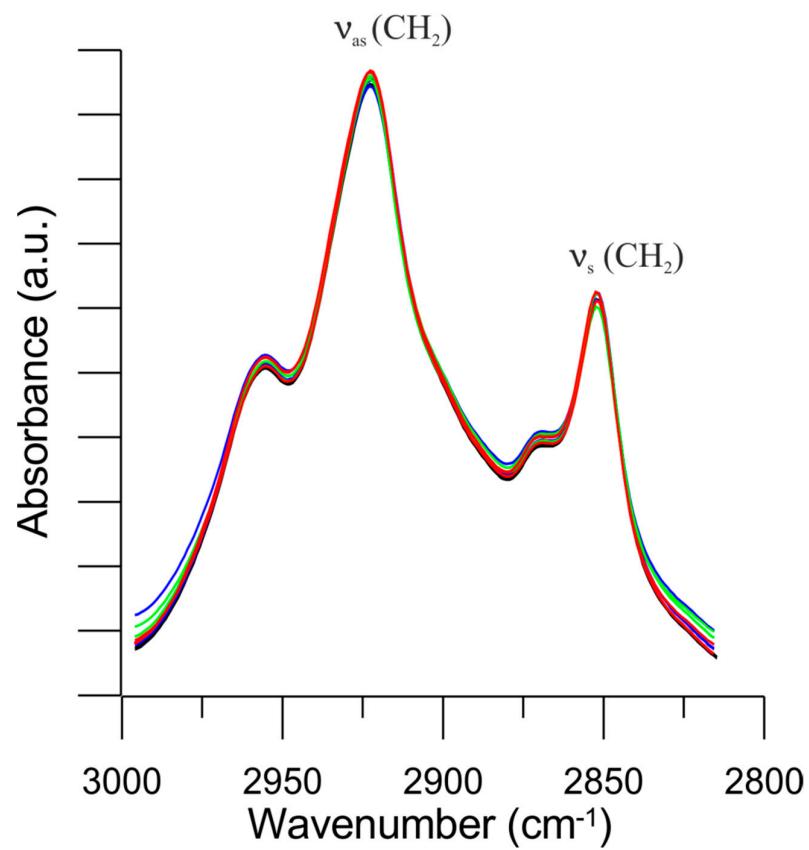


Figure S19: FT-IR spectra of erythrocyte membrane RBCMs (black lines) and of RBCMs modified with lactones (blue lines - **6a** and **6b**, green lines - **7a** and **7b**, red lines – **8a** and **8b**) for symmetric and asymmetric CH_2 stretching band.

Table S1. Hemolysis of RBCs dependent on concentration of compounds.

	Control	6a	6b	7a	7b	8a	8b
Concentration [mM]	Percentage of hemolysis ± SD						
0.5	3.530 ± 0.091	3.301 ± 0.162	3.031 ± 0.007	3.296 ± 0.085	3.256 ± 0.028	3.301 ± 0.035	3.106 ± 0.282
1	6.362 ± 0.542	6.197 ± 1.023	5.263 ± 0.607	7.435 ± 0.331	6.491 ± 0.409	5.218 ± 0.403	4.729 ± 0.713

Table S2. Selected bands (wave numbers cm^{-1}) of IR spectra of RBCM and RBCM+compounds (100 μM).

	RBCM	6a	6b	7a	7b	8a	8b
ν_s (N-C)	925.98	925.94	926.01	926.01	925.98	926.00	926.00
ν_{as} (N-C)	971.64	971.69	971.58	971.72	971.58	971.62	971.64
$\nu_s(\text{PO}_2^-)$	1064.82	1064.86	1064.77	1064.60	1064.41	1064.44	1064.42
$\nu_{as}(\text{PO}_2^-)$	1234.60	1234.26	1234.57	1234.42	1234.33	1234.35	1234.47
$\nu(\text{C=O})$	1739.60	1739.71	1739.94	1739.94	1739.26	1737.49	1738.11
$\nu_s(\text{CH}_2)$	2851.99	2851.90	2852.08	2852.07	2852.01	2851.93	2851.97
$\nu_{as}(\text{CH}_2)$	2922.46	2922.38	2922.66	2922.68	2922.50	2922.40	2922.53

