

Supplementary Material

Discovering New G-Quadruplex DNA Catalysts in Enantioselective Sulfoxidation Reaction

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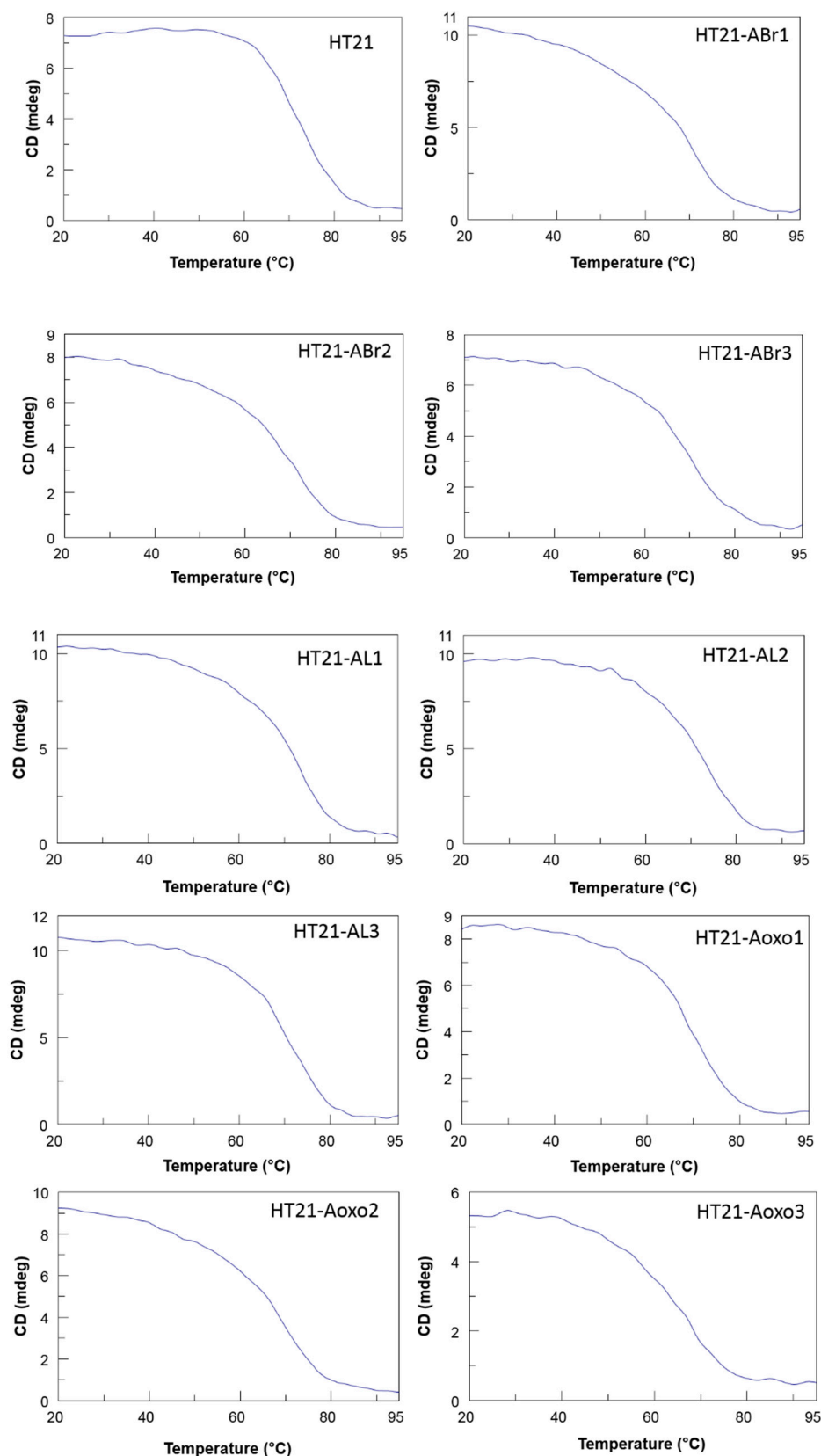
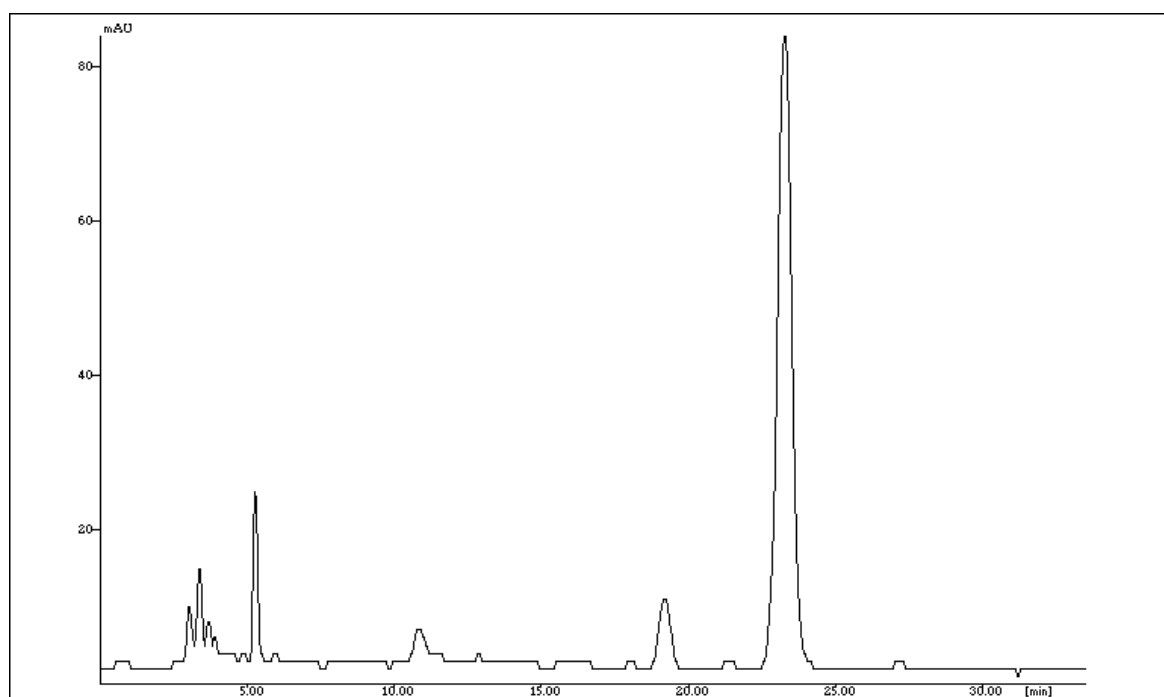


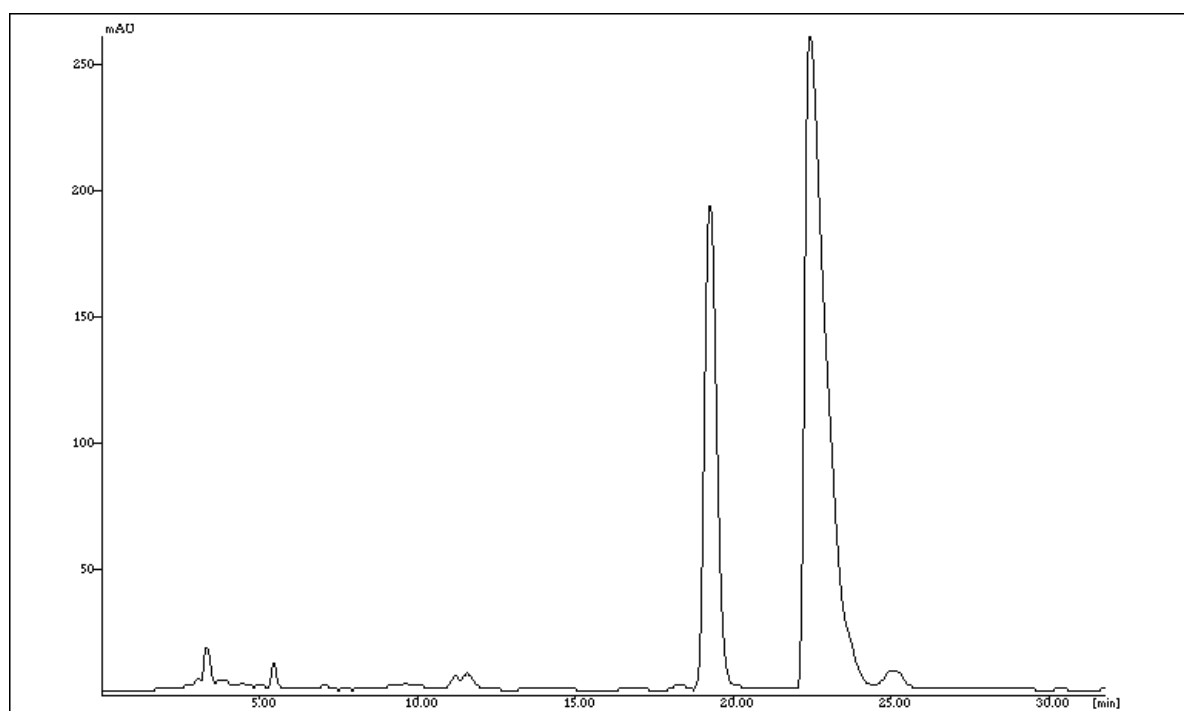
Figure S1. CD melting profiles of analyzed ODNs registered as a function of temperature for all modified quadruplexes at their maximum Cotton effect wavelengths. CD data were recorded in a 0.1 cm pathlength cuvette with a scan rate of 30 °C/h at 20 μ M ODN strand concentration in 20 mM MOPS buffer (pH 7.0) containing 150 mM KCl.

HPLC chromatogram 1. Sulfoxidation catalyzed by HT21-AL1•CuL.



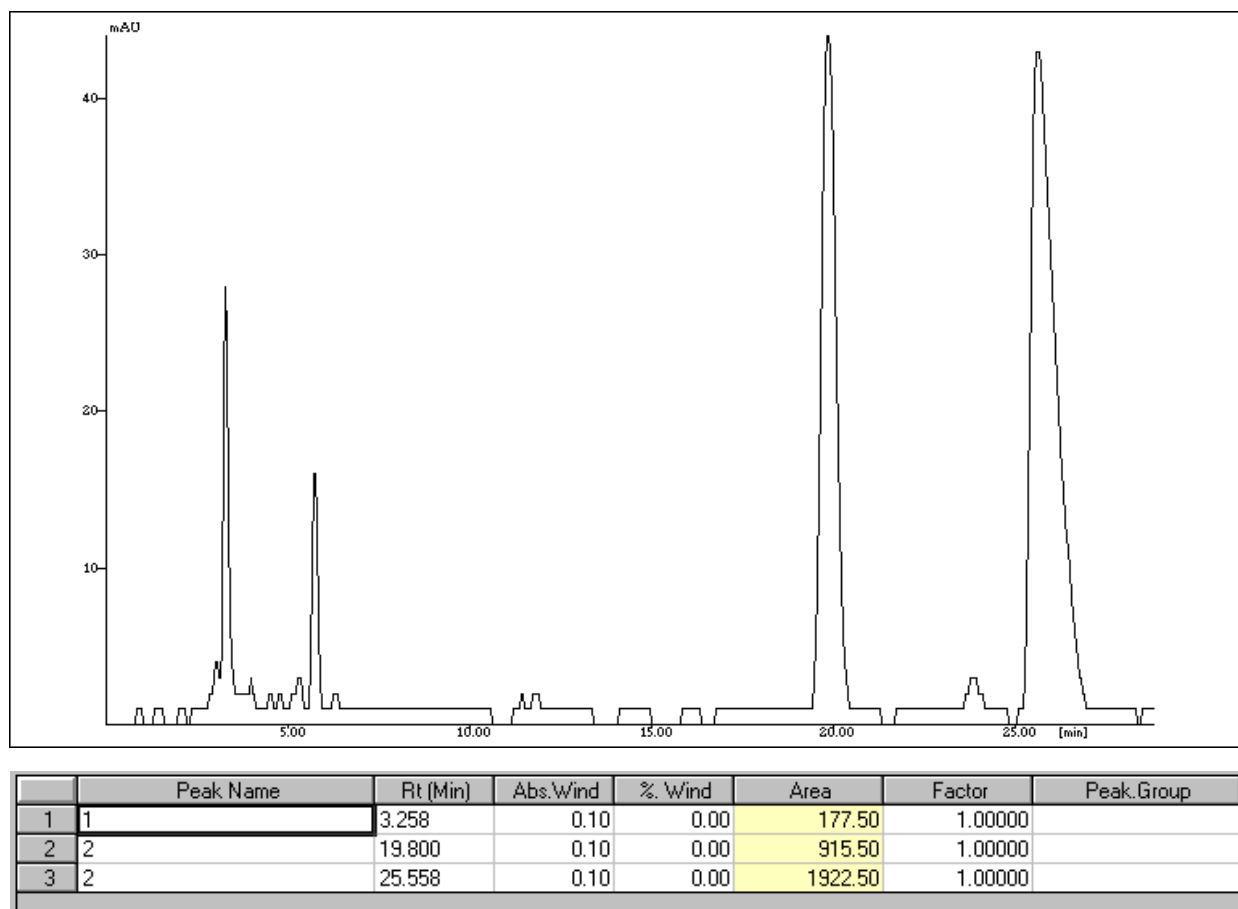
	Peak Name	Rt (Min)	Abs.Wind	%. Wind	Area	Factor	Peak.Group
1	1	3.350	0.10	0.00	71.50	1.00000	
2	2	19.100	0.10	0.00	231.00	1.00000	
3	Unknown	23.242	0.10	0.00	2575.00	1.00000	

HPLC chromatogram 2. Sulfoxidation catalyzed by HT21-AL2•CuL.

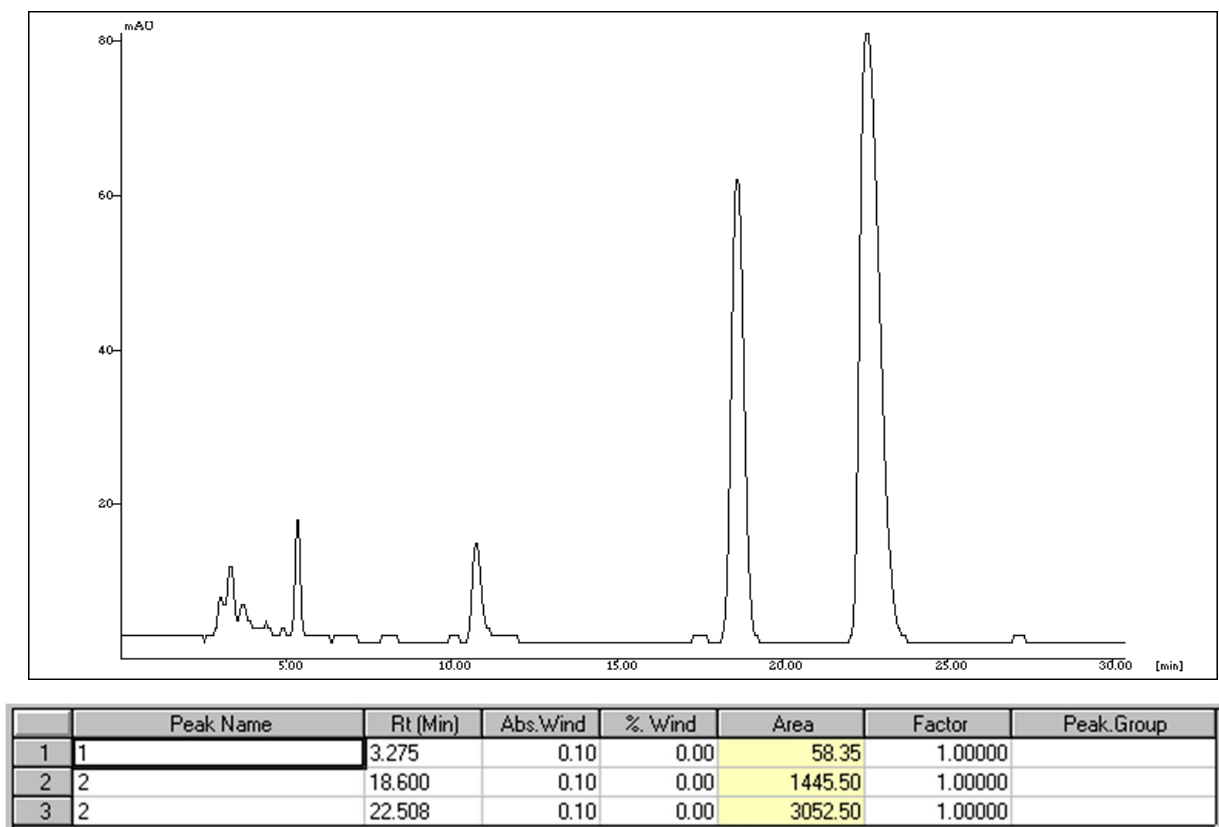


	Peak Name	Rt (Min)	Abs.Wind	%. Wind	Area	Factor	Peak.Group
1	1	3.267	0.10	0.00	137.39	1.00000	
2	2	19.233	0.10	0.00	3547.25	1.00000	
3	2	22.400	0.10	0.00	11721.00	1.00000	

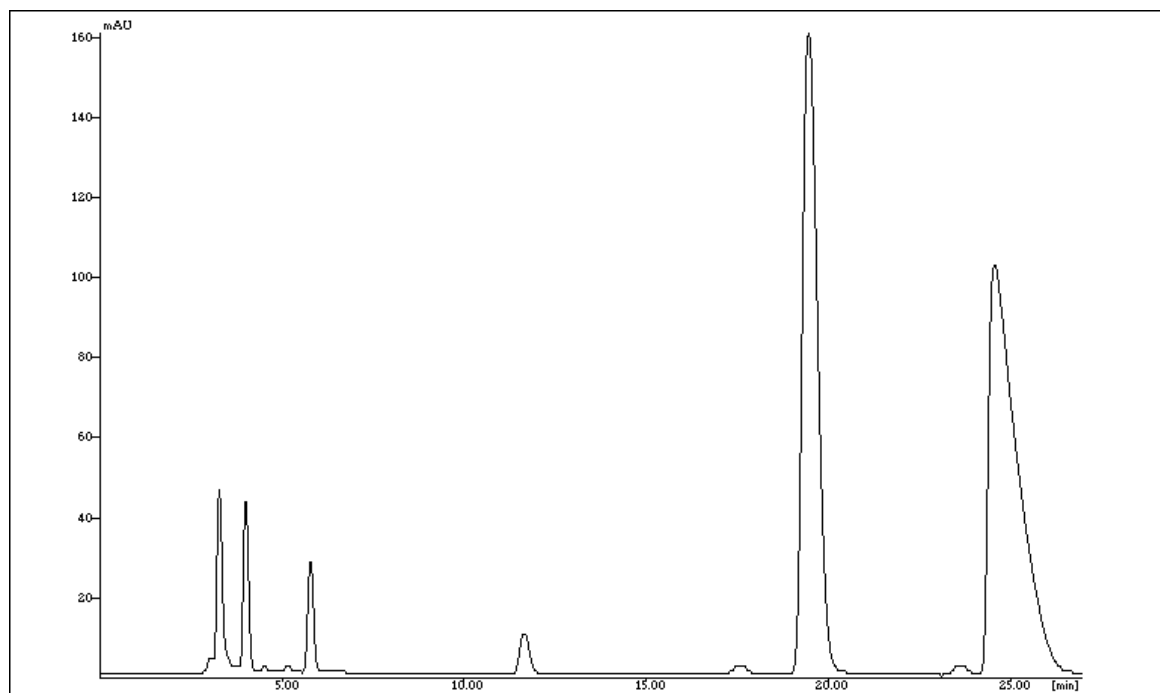
HPLC chromatogram 3. Sulfoxidation catalyzed by HT21-AL3•CuL.



HPLC chromatogram 4. Sulfoxidation catalyzed by HT21-Aoxo1•CuL.

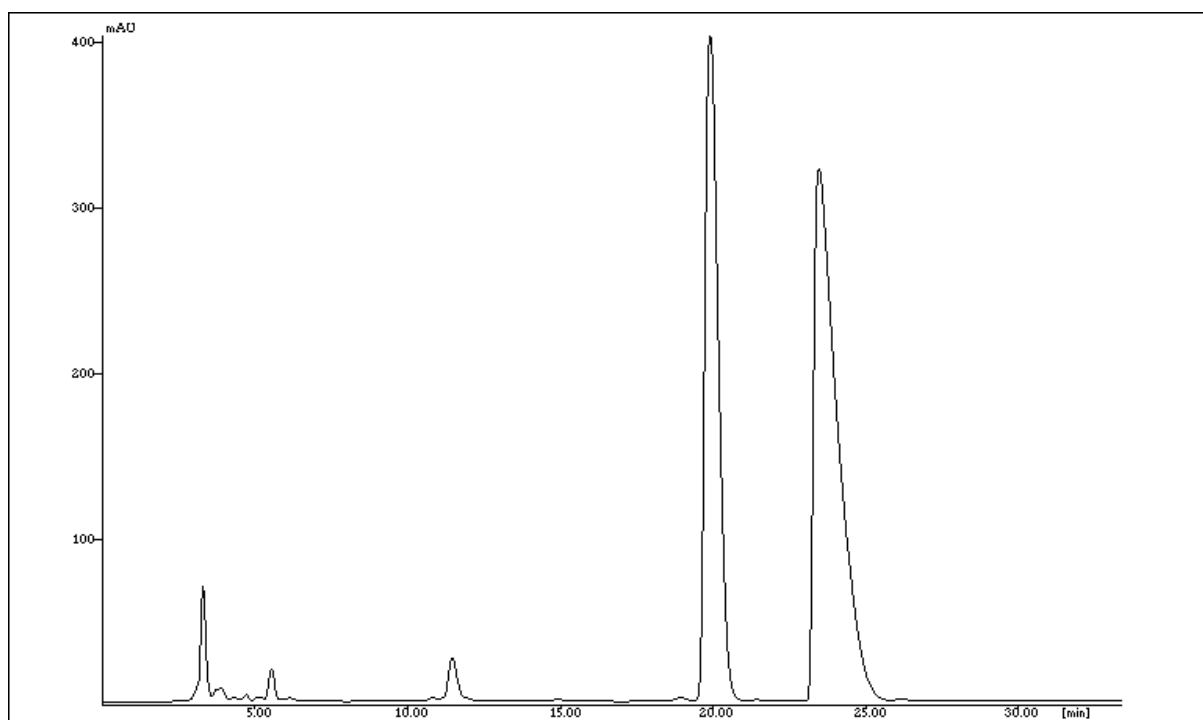


HPLC chromatogram 5. Sulfoxidation catalyzed by HT21-Aoxo2•CuL.



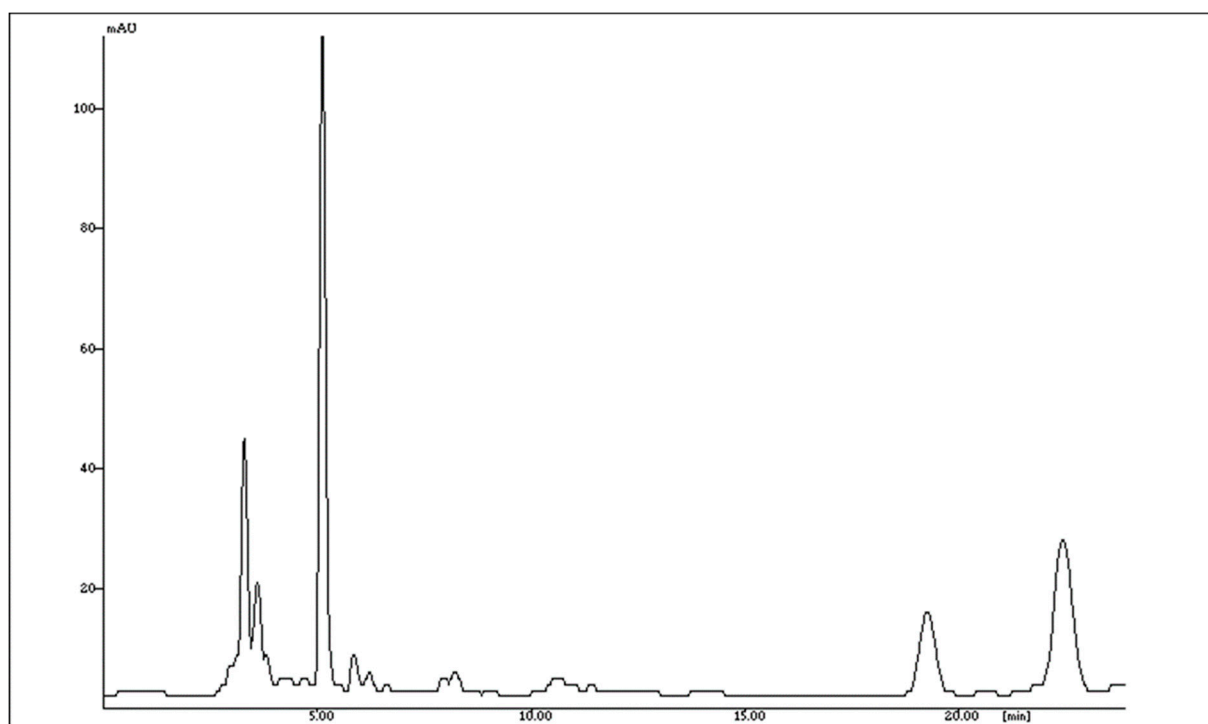
	Peak Name	Rt (Min)	Abs.Wind	%. Wind	Area	Factor	Peak.Group
1	1	3.258	0.10	0.00	330.39	1.00000	
2	2	19.442	0.10	0.00	4153.00	1.00000	
3	2	24.533	0.10	0.00	5321.50	1.00000	

HPLC chromatogram 6. Sulfoxidation catalyzed by HT21-Aoxo3•CuL.



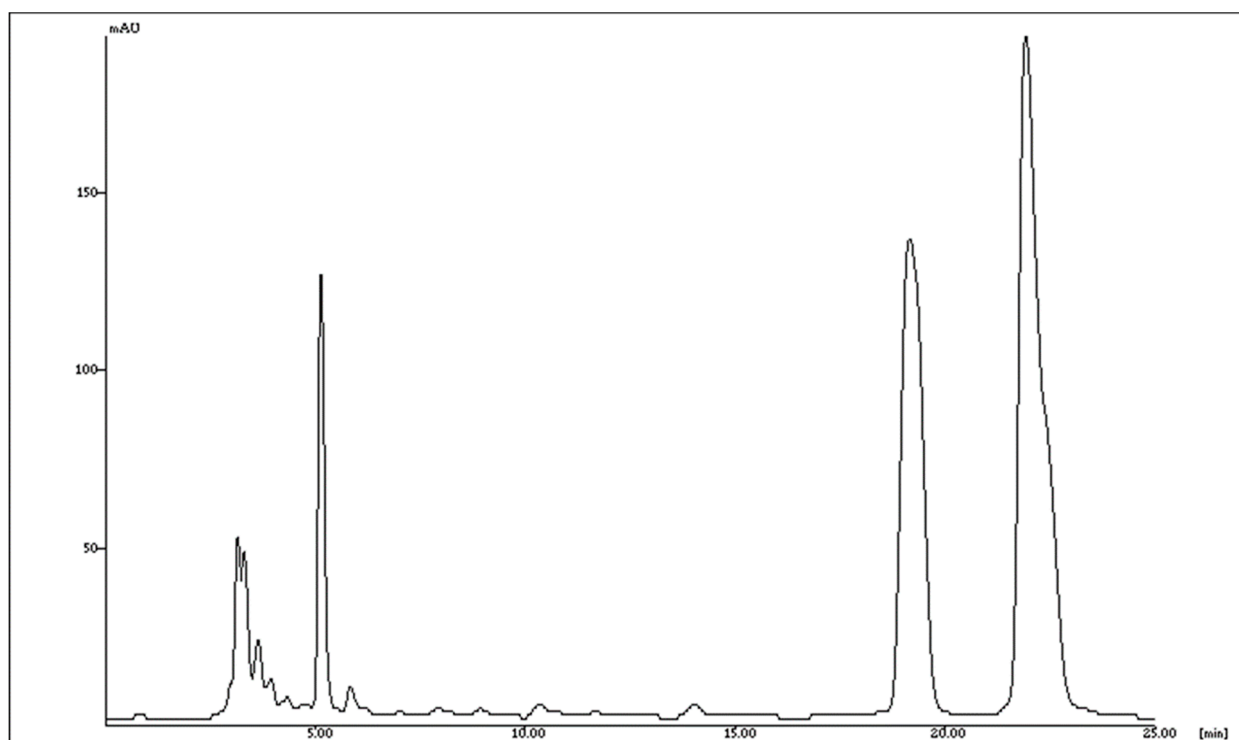
	Peak Name	Rt (Min)	Abs.Wind	%. Wind	Area	Factor	Peak.Group
1	1	3.258	0.10	0.00	595.71	1.00000	
2	2	19.867	0.10	0.00	10887.50	1.00000	
3	2	23.425	0.10	0.00	16300.50	1.00000	

HPLC chromatogram 7. Sulfoxidation catalyzed by HT21-ABr1•CuL.



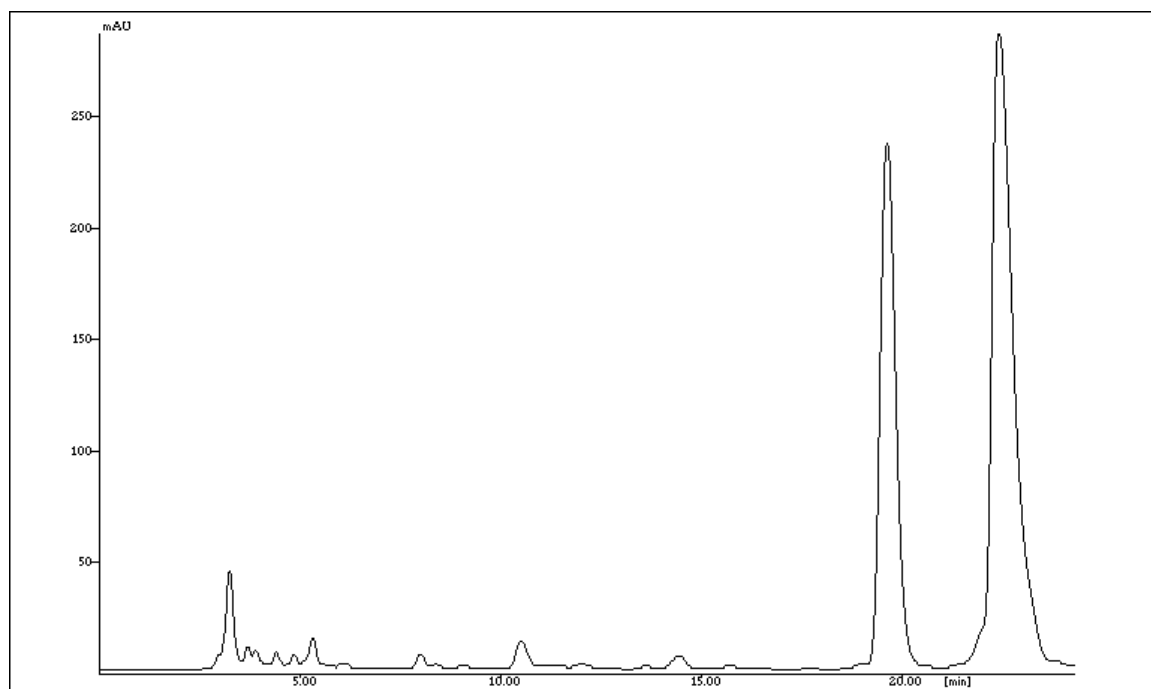
	Peak Name	Rt (Min)	Abs.Wind	%. Wind	Area	Factor	Peak.Group
1	1	3.275	0.10	0.00	263.00	1.00000	
2	2	19.217	0.10	0.00	354.50	1.00000	
3	2	22.375	0.10	0.00	704.50	1.00000	

HPLC chromatogram 8. Sulfoxidation catalyzed by HT21-ABr2•CuL.



	Peak Name	Rt (Min)	Abs.Wind	%. Wind	Area	Factor	Peak.Group
1	2	3.125	0.10	0.00	686.25	1.00000	
2	2	19.125	0.10	0.00	4409.50	1.00000	
3	2	21.892	0.10	0.00	6915.00	1.00000	

HPLC chromatogram 9. Sulfoxidation catalyzed by HT21-ABr3•CuL.



	Peak Name	Rt (Min)	Abs. Wind	%. Wind	Area	Factor	Peak.Group
1	1	3.233	0.10	0.00	473.25	1.00000	
2	2	19.608	0.10	0.00	5675.33	1.00000	
3	2bis	22.392	0.10	0.00	9849.00	1.00000	

ESI-MS spectrum of CuL complex

L4_25092020 #9-76 RT: 0.02-0.16 AV: 68 NL: 1.00E7
T: ITMS + c ESI Full ms [100.00-1000.00]

