

Supporting Information
**Probing the Activity Differences of Simple and Complex Brominated Aryl compounds
against 15-Soybean, 15-Human and 12-Human Lipoxygenase**

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Supporting Information:

Figure S1. ¹H NMR spectrum of 3,4-dibromo-2-(5'-bromo-2'-hydroxyphenoxy)phenol (**3c**),
(500 MHz, MeOH-*d*₄).

Figure S2. ¹³C NMR spectrum of 3,4-dibromo-2-(5'-bromo-2'-hydroxyphenoxy)phenol (**3c**),
(125 MHz, MeOH-*d*₄).

Table S1. NMR data of 3,4-dibromo-2-(5'-bromo-2'-hydroxyphenoxy)phenol (**3c**) in MeOH-*d*₄.

Figure S1. ^1H NMR spectrum of 3,4-dibromo-2-(5'-bromo-2'-hydroxyphenoxy)phenol (**3c**), (500 MHz, $\text{MeOH-}d_4$).

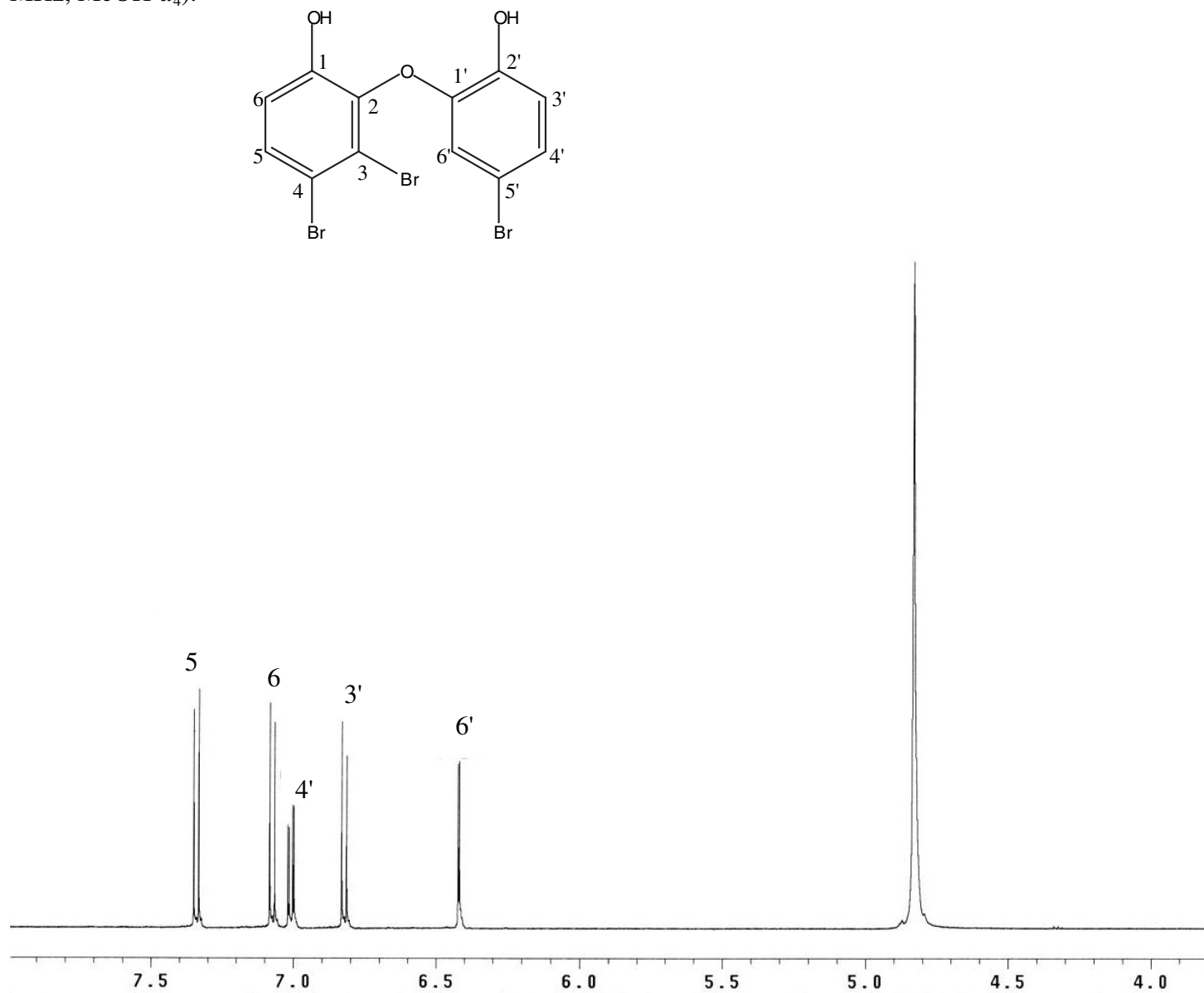


Figure S2. ^{13}C NMR spectrum of 3,4-dibromo-2-(5'-bromo-2'-hydroxyphenoxy)phenol (**3c**), (125 MHz, $\text{MeOH-}d_4$).

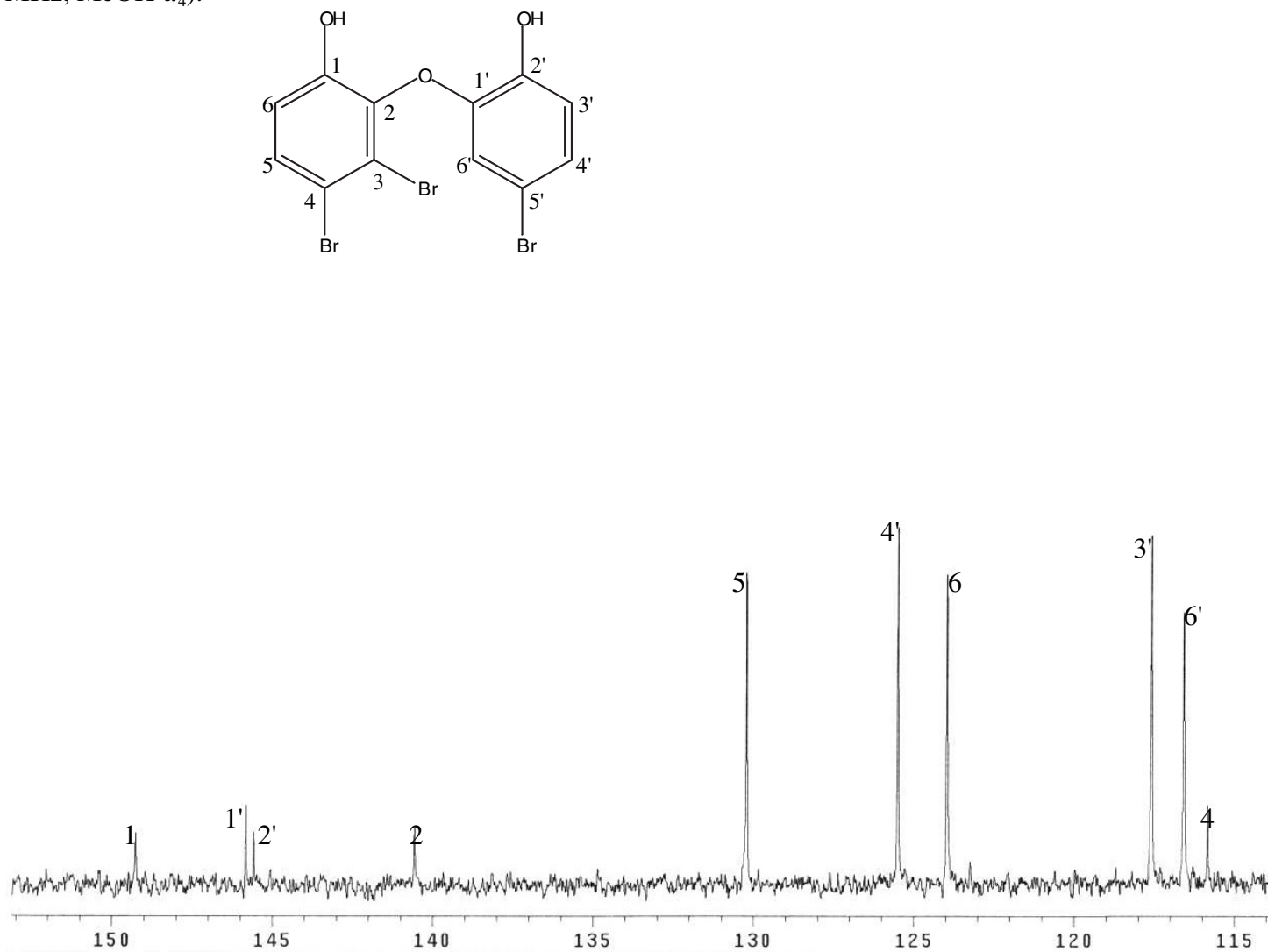


Table S1. NMR^a data of 3,4-dibromo-2-(5'-bromo-2'-hydroxyphenoxy)phenol (**3c**) in MeOH-*d*₄.

Position	δ_{H} (<i>J</i> in Hz)	δ_{C}	HMBC
1		149.3	
2		140.6	
3		130.2	
4		124.0	
5	7.34 d (9.0)	110.4	1, 2, 3, 4
6	7.07 d (8.5)	115.8	1, 2, 3, 4
1'		145.6	
2'		145.8	
3'	6.82 d (8.5)	117.6	1', 4', 5'
4'	7.01 dd (8.5, 2.5)	125.5	2', 6'
5'		110.0	
6'	6.42 d (2.5)	116.6	2', 4', 5'

^ameasured at 500 MHz (¹H) and 125 MHz (¹³C)