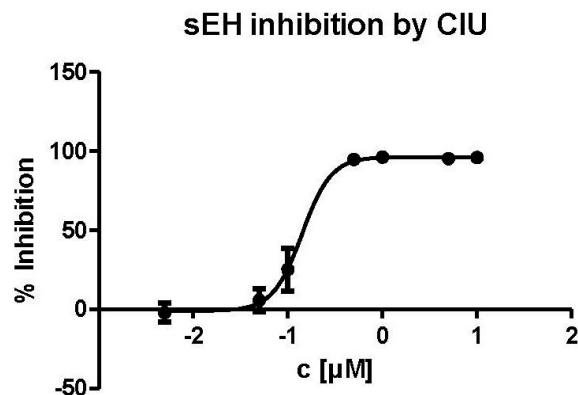
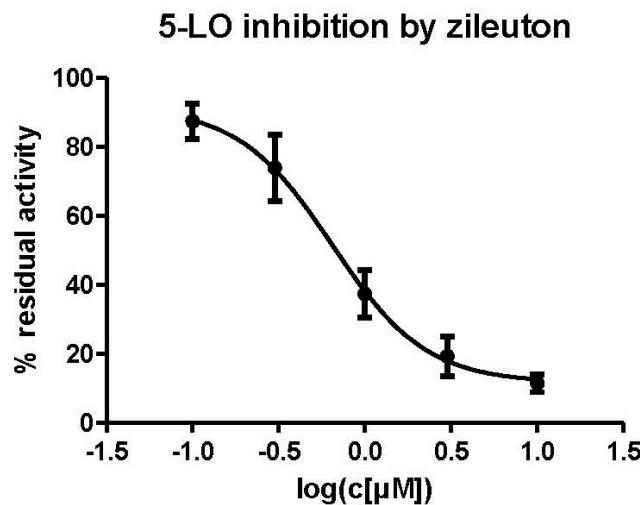


# Supplementary Materials: Design, Synthesis and Cellular Characterization of a Dual Inhibitor of 5-Lipoxygenase and Soluble Epoxide Hydrolase

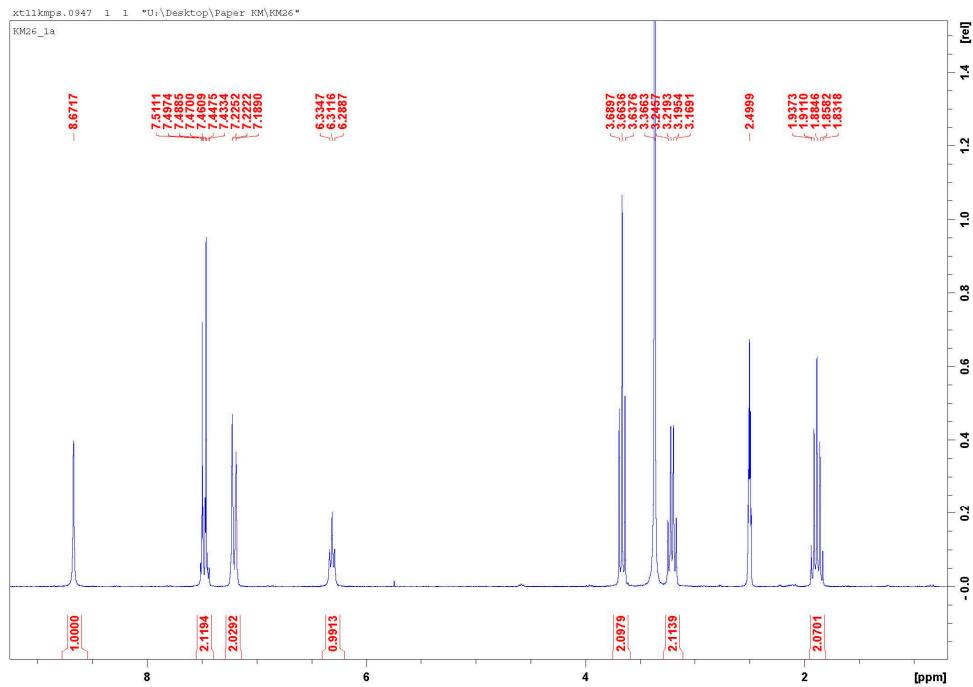
Karin Meirer, Daniel Glatzel, Simon Kretschmer, Sandra K. Wittmann, Markus Hartmann, René Blöcher, Carlo Angioni, Gerd Geisslinger, Dieter Steinhilber, Bettina Hofmann, Robert Fürst and Ewgenij Proschak



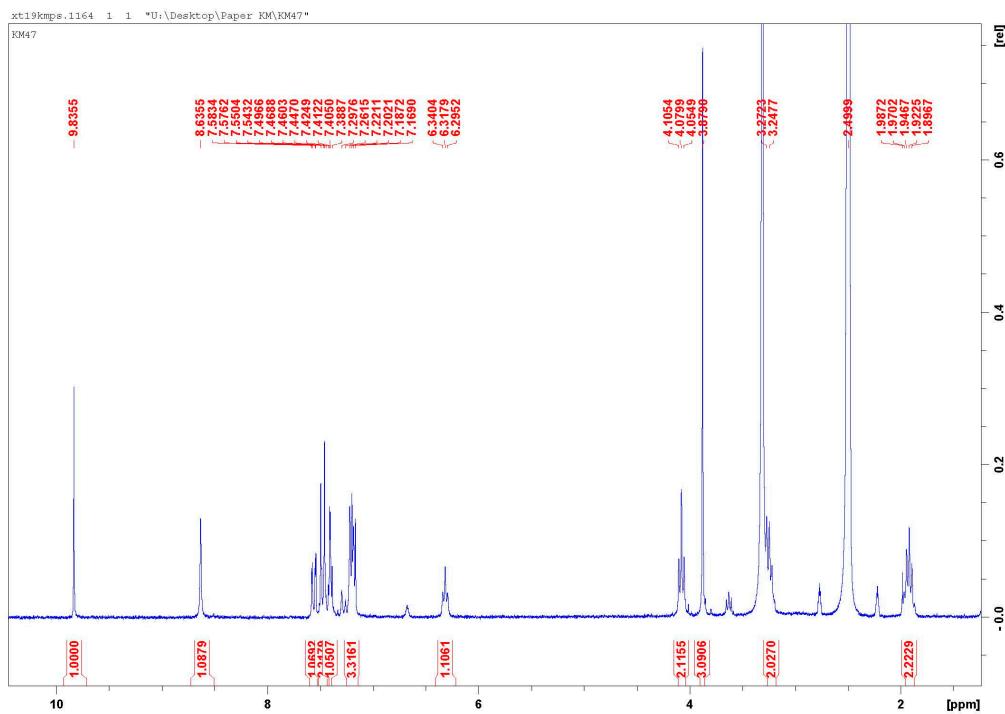
**Figure S1.** Inhibition of soluble epoxide hydrolase by reference inhibitor *N*-cyclohexyl-*N'*-(4-iodophenyl)urea (CIU).



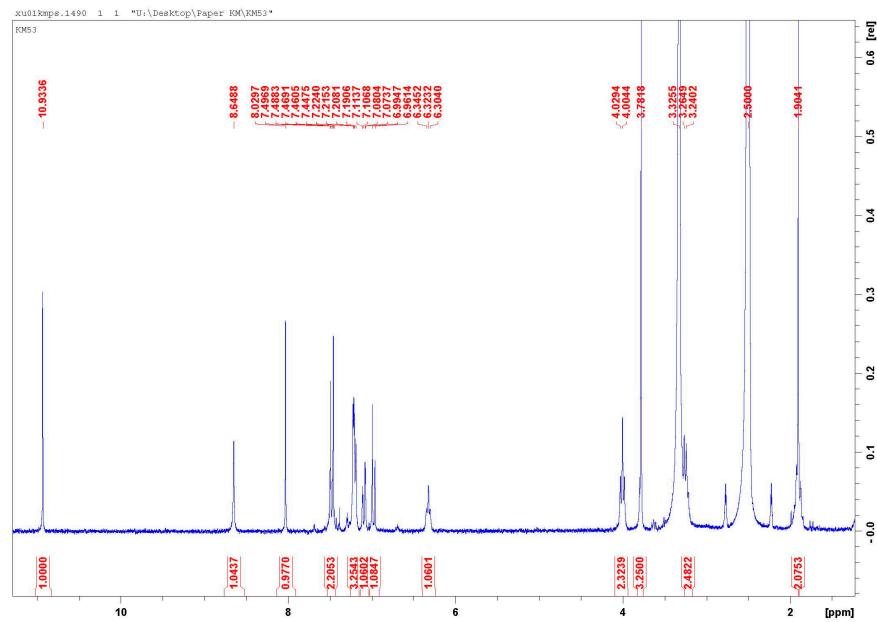
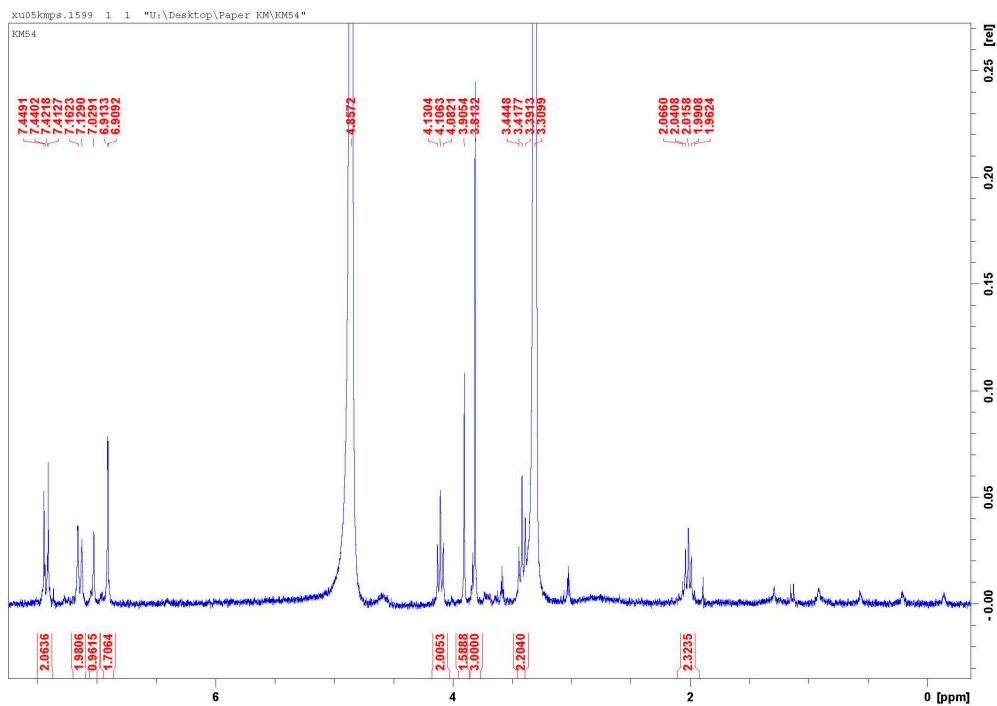
**Figure S2.** Inhibition of 5-lipoxygenase by reference inhibitor zileuton.

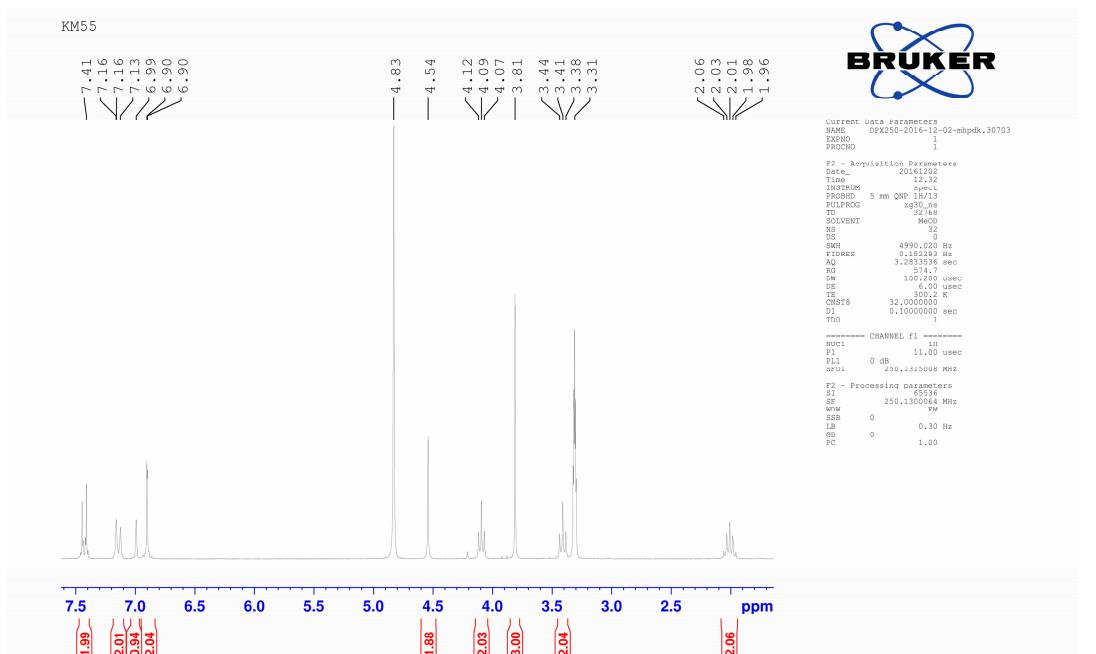
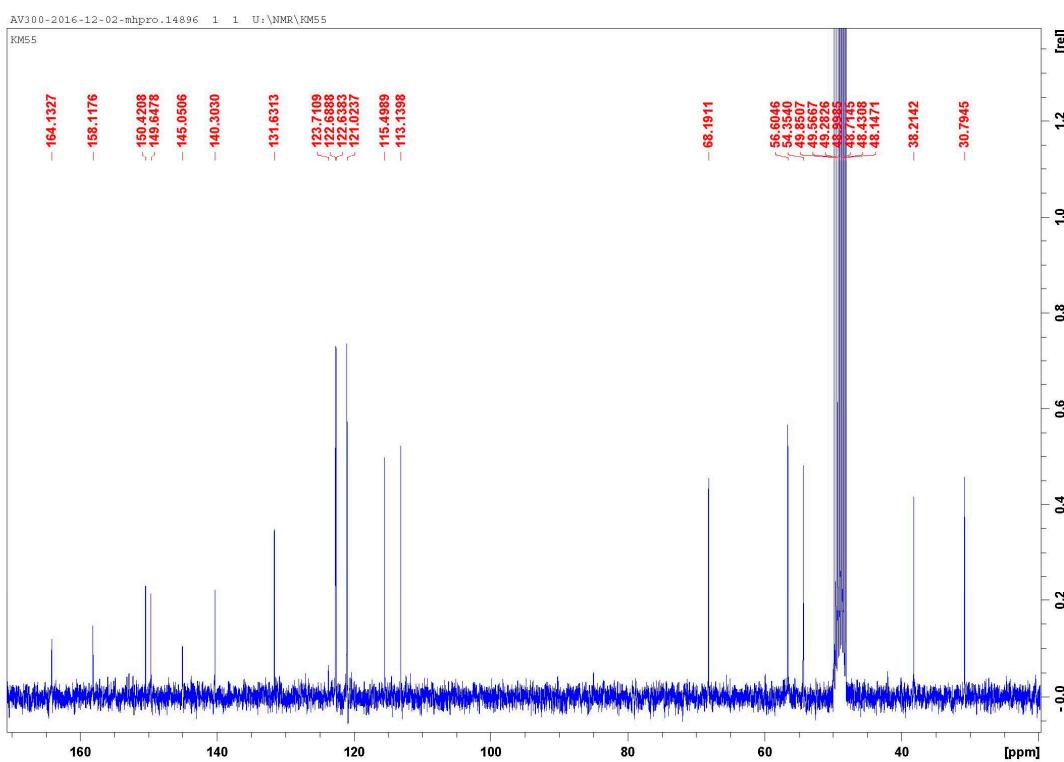


**Figure S3.**  $^1\text{H}$ -NMR spectrum of compound 6.



**Figure S4.**  $^1\text{H}$ -NMR spectrum of compound 7.

Figure S5. <sup>1</sup>H-NMR spectrum of compound 8.Figure S6. <sup>1</sup>H-NMR spectrum of compound 9.

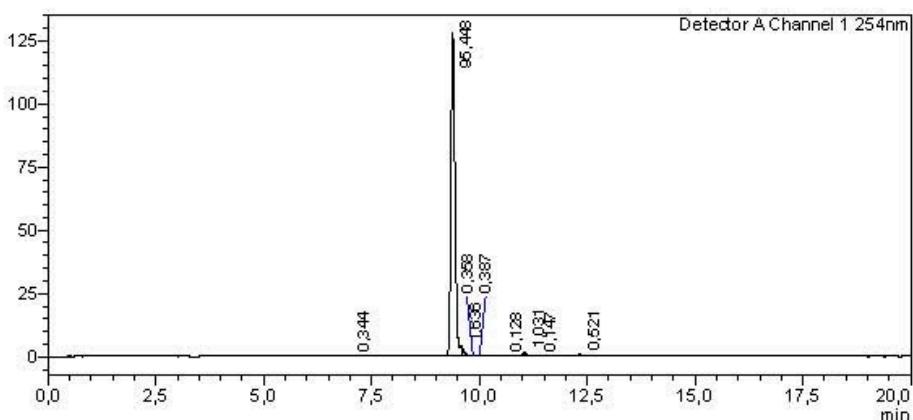
Figure S7. <sup>1</sup>H-NMR spectrum of KM55.Figure S8. <sup>13</sup>C-NMR spectrum of KM55.

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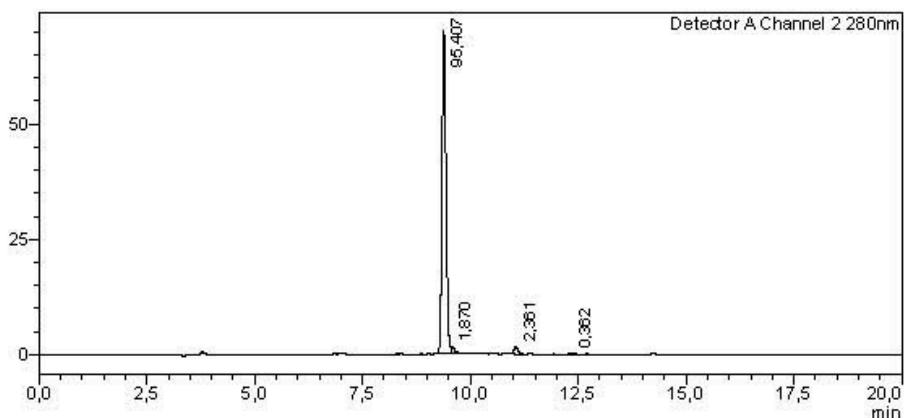
### **<Sample Information>**

**<Chromatogram>**

108



m AU



### Peak Table

Detector A Channel 1 254nm		
Peak#	Ret. Time	Area %
1	7.020	0.344
2	9.386	95.448

C:\LabSolutions\Data\Proschak\Markus\KM55\_C18\_Scout\_Theresa\_Reinheitsbestimmung\_7.lcd

Peak#	Ret. Time	Area%
3	9,596	1,636
4	9,851	0,358
5	10,010	0,387
6	10,560	0,128
7	11,055	1,031
8	11,342	0,147
9	12,340	0,521
Total		100,000

Detector A Channel 2 280nm

Peak#	Ret. Time	Area%
1	9,387	95,407
2	9,563	1,870
3	11,055	2,361
4	12,343	0,362
Total		100,000

**Figure S9.** Purity determination of KM55.