

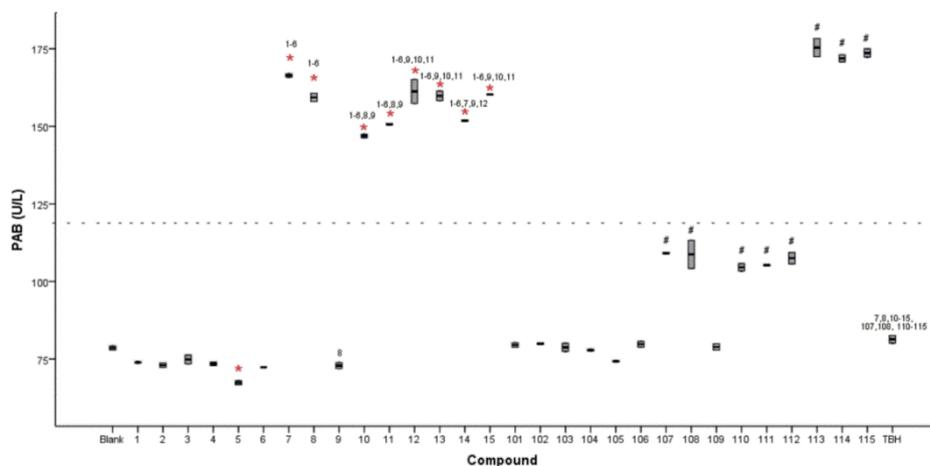
SUPPLEMENTARY MATERIAL TO  
***In vitro* study of redox properties of azolyl-lactones in human serum**

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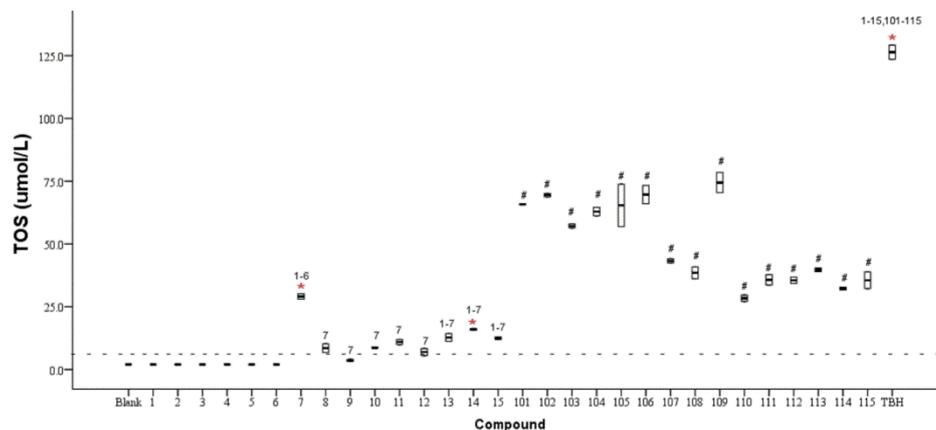
PROOXIDATIVE-ANTIOXIDATIVE BALANCE (PAB)



**Figure S-1.** PAB concentration (U/L) in compounds (1-15) and its combination with TBH (101-115) after 2h incubation in human serum pool (37° C). \*  $p < 0.05$  vs. blank sample (serum pool); #  $p < 0.05$  compound + TBH in human serum pool vs. the same compound in human serum pool without TBH. TBH is a sample of TBH in human serum pool. Numbers above the boxes mean  $p < 0.05$  vs. compound signed with the distinct number - - - median PAB value for human serum pool sample with Trolox.

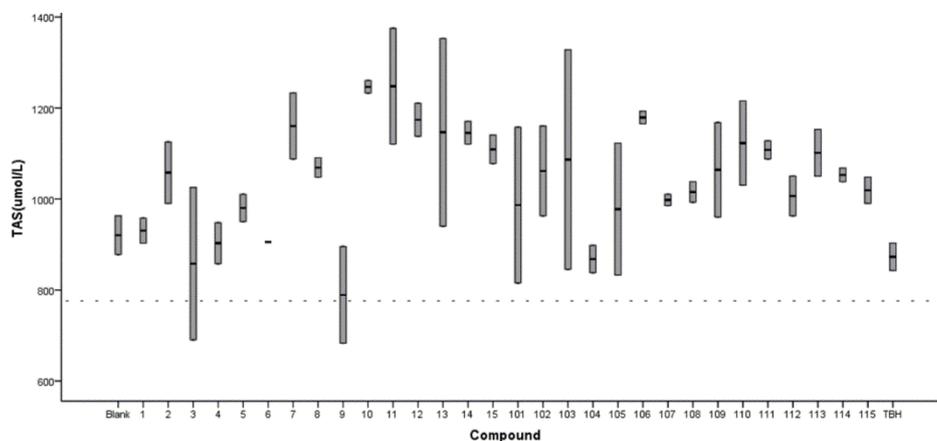
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## TOTAL OXIDATIVE STATUS (TOS)

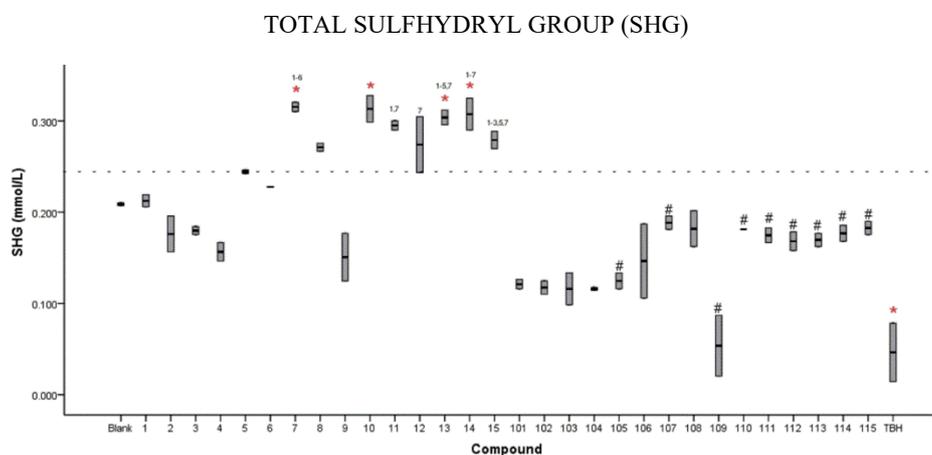


**Figure S-2.** TOS concentration ( $\mu\text{mol/L}$ ) in compounds (1-15) and its combination with TBH (101-115) after 2h incubation in human serum pool ( $37^\circ\text{C}$ ). \* $p < 0.05$  vs. blank sample (serum pool); #  $p < 0.05$  compound + TBH in human serum pool vs. the same compound in human serum pool without TBH. TBH is a sample of TBH in human serum pool. Numbers above the boxes mean  $p < 0.05$  vs. compound signed with the distinct number - - - median TOS value for human serum pool sample with Trolox.

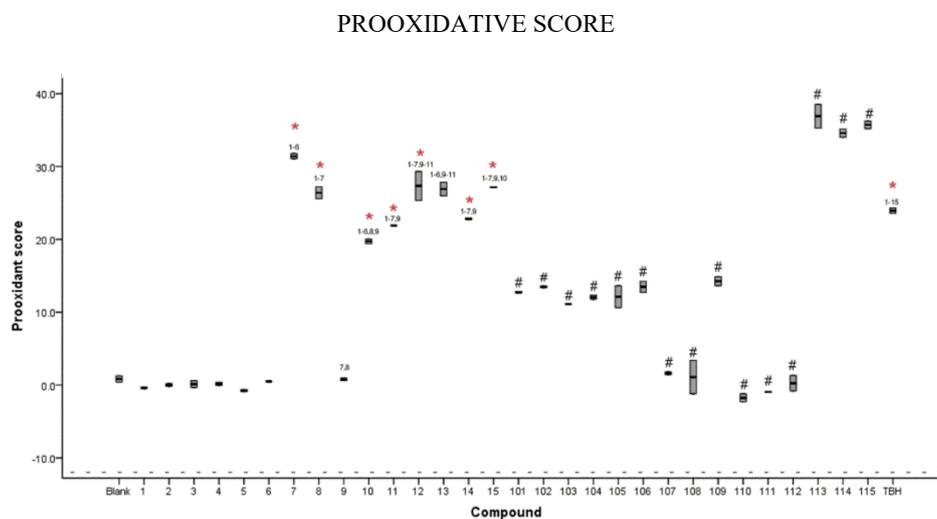
## TOTAL ANTIOXIDATIVE STATUS (TAS)



**Figure S-3.** TAS concentration ( $\mu\text{mol/L}$ ) in compounds (1-15) and its combination with TBH (101-115) after 2h incubation in human serum pool ( $37^\circ\text{C}$ ). All differences in TAS concentration between different compounds were statistically non-significant. TBH is a sample of TBH in human serum pool. Numbers above the boxes mean  $p < 0.05$  vs. compound signed with the distinct number - - - median TAS value for human serum pool sample with Trolox.

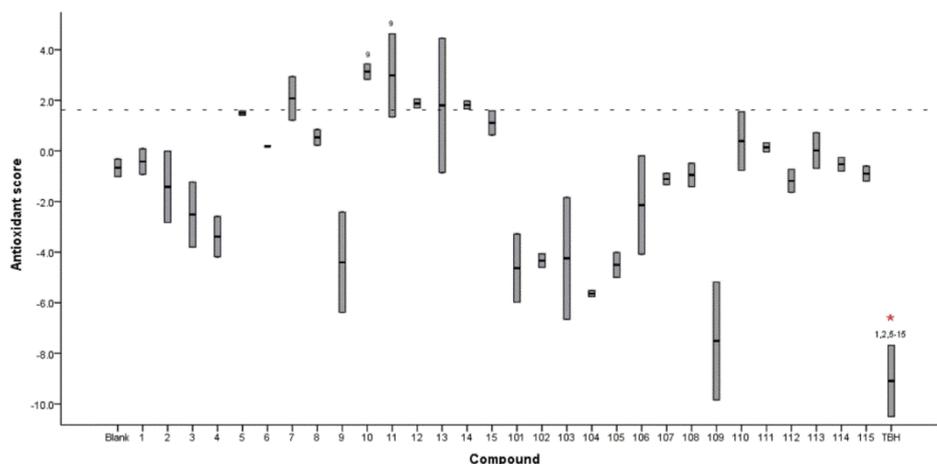


**Figure S-4.** Total SH groups concentration (mmol/L) in compounds (1-15) and its combination with TBH (101-115) after 2h incubation in human serum pool (37° C). \* $p < 0.05$  vs. blank sample (serum pool); #  $p < 0.05$  compound + TBH in human serum pool vs. the same compound in human serum pool without TBH. TBH is a sample of TBH in human serum pool. Numbers above the boxes mean  $p < 0.05$  vs. compound signed with the distinct number - - - median SHG value for human serum pool sample with Trolox.

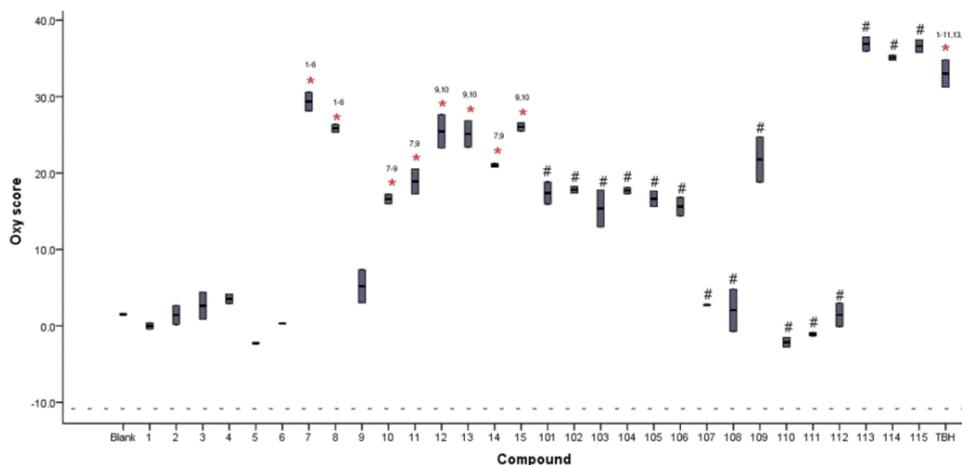


**Figure S-5.** Prooxidant score value in compounds (1-15) and its combination with TBH (101-115) after 2h incubation in human serum pool (37° C). \* $p < 0.05$  vs. blank sample (serum pool); #  $p < 0.05$  compound + TBH in human serum pool vs. the same compound in human serum pool without TBH. TBH is a sample of TBH in human serum pool. Numbers above the boxes mean  $p < 0.05$  vs. compound signed with the distinct number - - - median Prooxidant score value in serum sample with Trolox.

ANTIOXIDANT SCORE



**Figure S-6.** Antioxidant score value in compounds (1-15) and its combination with TBH (101-115) after 2h incubation in human serum pool (37° C). \* $p < 0.05$  vs. blank sample (serum pool); # $p < 0.05$  compound + TBH in human serum pool vs. the same compound in human serum pool without TBH. TBH is a sample of TBH in human serum pool. Numbers above the boxes mean  $p < 0.05$  vs. compound signed with the distinct number - - - median Antioxidant score value in serum sample with Trolox.



**Figure S-7.** Oxy score value in compounds 1–15 and its combination with TBH (101–115). \* $p < 0.05$  vs. blank sample (serum pool); # $p < 0.05$  compound + TBH in human serum pool vs. the same compound in human serum pool without TBH. TBH is a sample of TBH in human serum pool. Numbers above the boxes mean  $p < 0.05$  vs. compound signed with the distinct number; ---- median Oxy score value for human serum pool sample with Trolox.