

PROLONGED PROTECTIVE EFFECT OF WATER SOLUBLE AMINES WITH PHENOL FRAGMENT

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Water soluble amines I-III with a phenolic moiety have been synthesized and their protective mode of action in the model lipid peroxidation (LPO) of Russian sturgeon liver homogenate was monitored by the accumulation of TBA-reactive substances in a long-term ongoing process (48 hours), as well as the effect on the activity of superoxide dismutase in the oxidation of epinephrine.

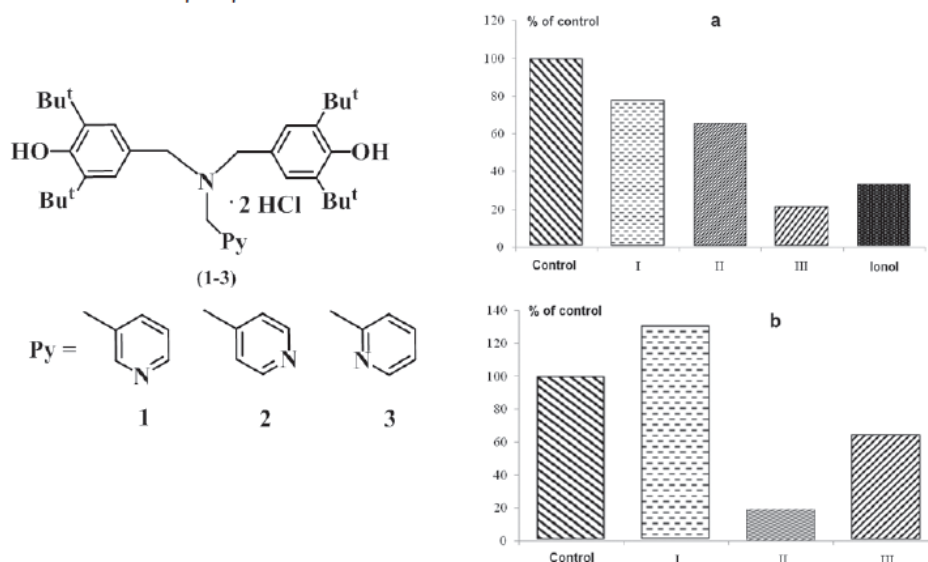


Figure. The influence of I-III at LPO level (a) and the content of epinephrine oxidation products by SOD (b) (Russian sturgeon liver homogenate)

Compounds II, III were found to reduce lipid peroxidation level and epinephrine oxidation products content at all stages that confirms their high antioxidant protective activity type.

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