

Abstract - selected

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Effects of Trace Elements and Mono- and Dithiols on Mitochondrial Monoamine Oxidase of Rats

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The effects of several trace elements on mitochondrial monoamine oxidase (MAO) were studied. Elements were studied at a concentration of 1 mM; only mercury, cadmium, and copper were significantly effective in reducing the activity of this enzyme. Of several thiols tested, only dithiothreitol could reverse the inhibition of MAO by these elements. Evidence is also presented in this report to show that cysteine, homocysteine, and reduced glutathione inhibit this MAO, whereas dithiothreitol or dithioerythritol evoke stimulatory responses.

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