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COMPARISON OF LIPOAMIDE DEHYDROGENASE ACTIVITY IN HL-60 LEUKEMIA CELLS AND NORMAL LYMPHOCYTE

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Abstract:

To determine the importance of $Q_{10}H_2$ as an antioxidant in cancer, we measured the activity of lipoamide dehydrogenase ($Q_{10}H_2$ recycling enzyme) in HL-60 and normal lymphocyte. The cultured cells of HL-60 and human normal lymphocytes were assayed in cell lysate of given number of both HL-60 and normal lymphocyte. The activity of lipoamide dehydrogenase and the protein concentration were determined by spectrometric methods. The activity of LAD was found to be $0.216\mu\text{mol}/\text{min}/\mu\text{g}$ protein in HL-60 cells and $0.0415\mu\text{mol}/\text{min}/\mu\text{g}$ protein in normal lymphocytes. Although the average protein concentration ratio in HL-60 cells to normal lymphocyte was found to be %124, the average ratio of enzyme activity in HL-60 to normal lymphocyte was %526. These results are indicative of independence of enzyme increase in HL-60 cells of increase of protein synthesis.

Keywords:

Lipoamide dehydrogenase . Lymphocyte . HL-60

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