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Effect of 2-Mercaptopropionylglycine on the Development of X-ray-induced Cataract in Rats

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The effect of 2-mercaptopropionylglycine on the development of cataract induced by a single dose of X-ray (10 Gy) was investigated in rats. Intraperitoneal injection of $20 \, \mathrm{mg/kg}$, three times weekly starting 1 day after irradiation delayed the development of X-ray-induced cataracts significantly. The amounts of non-protein SH groups, malondial-dehyde and the $\mathrm{Na^+/K^+}$ ratio, in the lenses of rats post-treated with the drug were significantly maintained at normal levels even at 27 weeks after irradiation.

On the other hand, a single administration of 250 mg/kg of the compound, 30 min prior to irradiation had no effect on cataract progression induced by X-ray.

^{*} 本報告は Curr. Eye Res., 11, 1099-1103 (1992) に発表。

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