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Author	小林, 静子(Kobayashi, Shizuko) 粕谷, 美南子(Kasuya, Minako) 石井, 康雄(Ishii, Yasuo) 竹鼻, 眞(Takehana, Makoto) 酒井, 一夫(Sakai, Kazuo) 鈴木, 紀夫(Suzuki, Norio) 糸井, 素一(Itoi, Motokazu)
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Effect of 2-Mercaptopropionylglycine on the Development of X-ray-induced Cataract in Rats

Shizuko KOBAYASHI, Minako KASUYA**, Yasuo ISHII**, Makoto TAKEHANA,
Kazuo SAKAI***, Norio SUZUKI*** and Motokazu ITOI**

小林静子, 粕谷美南子**, 石井康雄**, 竹鼻 眞, 酒井一夫***,
鈴木紀夫***, 糸井素一**

The effect of 2-mercaptpropionylglycine on the development of cataract induced by a single dose of X-ray (10 Gy) was investigated in rats. Intraperitoneal injection of 20 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, malondialdehyde and the 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.

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** 白内障研究所

*** 東京大学医学部