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Radioimmunoassay for the Determination of Ginseng Saponin, Ginsenoside Rg₁*

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Radioimmunoassay method for the determination of ginsenoside Rg₁, one of the major saponins of *Panax ginseng* root, was established. The side chain of ginsenoside Rg₁ was modified and coupled to BSA. ¹²⁵I-Labelled compound of ginsenoside Rg₁ was prepared from a ginsenoside Rg₁-tyramine conjugate. Immunization of rabbits with the hapten-BSA conjugate gave antiserum possessing high affinity and specificity toward ginsenoside Rg₁. Ginsenoside Rg₁ can be determined by the established radioimmunoassay method over a range of 250 pg—10 ng per tube.

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** 東京大学生薬学教室