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## Arnottianin: A New Dihydropyranocoumarin

In the course of the studies on the Alkaloids of Rutaceous Plants,<sup>1)</sup> we occasionally isolated a new nonphenolic dihydropyranocoumarin,<sup>2)</sup> mp 197—198°,  $[\alpha]_D^{n^*} \pm 0^\circ$ ,<sup>3)</sup> designated as arnottianin by us, from the wood of *Xanthoxylum Arnottianum* Maxim.<sup>4)</sup> in 0.0024% yield. We reported here the structural establishment of it from consideration of the spectral data.

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<sup>1)</sup> Preceding paper; Part XIX: H. Ishii, H. Ohida and J. Haginiwa, Yahugaku Zasshi, 92, 118 (1972).

<sup>2)</sup> Isolation work will be shown in a full paper. (H. Ishii, K. Hosoya and J. Haginiwa, unpublished.)

<sup>3)</sup> It was confirmed by measurement of the ORD curve. From this result, we wondered at first if it might be an artefact produced from other coumarin contained in the same plant during preparation of the extract. Thin layer chromatography of the methanol extract of this plant has shown the spot at the Rf value corresponding to the new coumarin and refluxing of all of the isolated coumarins from the same plant in 10% AcOH aq. which was a condition used for isolation work of alkaloids did not give the material. These experimental facts are enough to exclude the possibility of an artefact of it.

<sup>4)</sup> This material was collected in Bonin-islands and called as "Iwazansho" in Japanese name.

<sup>5)</sup> G. Schneider, H. Müller and P. Pfaender, Arch. Pharm., 300, 73 (1967).