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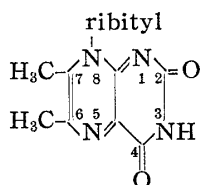
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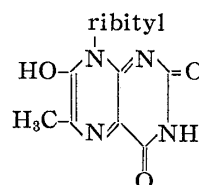
On the Nomenclature of the Fluorescent Substances produced in the Culture of *Eremothecium ashbyii*

One of the writers (Masuda) discovered in the culture broth and mycelium of *Er. ashbyii* a green fluorescent (G-compound) and a violet fluorescent substances (V-compound) in addition to riboflavin, flavin adenine dinucleotide (FAD), and others.¹⁾ These fluorescent substances were isolated in a pure state and their properties and structures were studied. First of all, a photodecomposition product of G-compound was confirmed to be identical with 6,7-dimethyl-2(1*H*),4(3*H*)-pteridinedione and this fact suggested the structure of 6,7-dimethyl-8-ribityl-2(3*H*),4(8*H*)-pteridinedione (I) for the compound.²⁾ The compound was further found to undergo condensation *in vitro* with diacetyl or with acetoin to give riboflavin.³⁾ The V-compound was assumed to be 6-methyl-7-hydroxy-8-ribityl-2(3*H*),4(8*H*)-pteridinedione (II) as its photodecomposition product was in complete agreement with the synthesized 6-methyl-7-hydroxy-2(1*H*),4(3*H*)-pteridinedione.⁴⁾

However, there was a fear that the names G- and V-compounds might cause confusion because such names are also used for groups of other compounds, and it is proposed to call the G-compound 6,7-dimethylribolumazine and the V-compound 6-methyl-7-hydroxyribolumazine.⁵⁾ Since in this case the ribolumazine means the attachment of a ribityl group to N-8 of lumazine, both compounds could be clearly distinguished by the new nomenclature.



(I) (G-Compound)
6,7-Dimethylribolumazine



(II) (V-Compound)
6-Methyl-7-hydroxyribolumazine

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- 1) T. Masuda : This Bulletin, **3**, 434(1955).
- 2) *Idem.* : *Ibid.*, **4**, 375(1956).
- 3) *Idem.* : *Ibid.*, **5**, 136(1957).
- 4) T. Masuda, T. Kishi, M. Asai : *Ibid.*, **6**, 113, 291(1958).
- 5) Proposal made at the symposium held on February 28, 1958, under the auspices of the Vitamin B Committee.