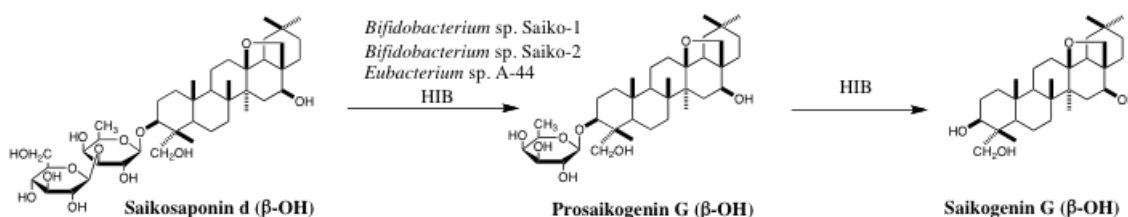


Saikosaponin d



Transformation of saikosaponin d to prosaikogenin G and saikogenin G by human intestinal bacteria

代謝実験

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単一化合物 saikosaponin d

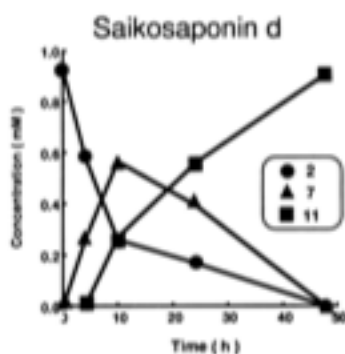


Fig. 1 Time course of metabolism of saikosaponin d (2) by a human fecal suspension.

Symbols : 2, saikosaponin d ; 7, prosaikogenin G ; 11, saikogenin G. [Kida *et al.*, *J. Trad. Med.*, **14**, 34-40 (1997)]

Preparation of a bacterial suspension of human feces

Fresh feces obtained from a healthy young man (age: 25, male) were suspended in five volumes of phosphate buffer (pH 7.2). The fecal suspension thus obtained was used in the following experiments. [Kida *et al.*, *J. Trad. Med.*, **14**, 34-40 (1997)]

Time course of the metabolism of saikosaponin d by an intestinal bacterial

suspension : GAM broth (9 ml) containing saikosaponin d (a final concentration, 1

mM) was incubated with an intestinal bacterial suspension (1 ml) in an anaerobic incubator at 37°C. A 100 µm portion was taken out at intervals (4, 10, 24 and 48 hours) and extracted with BuOH (100 µl). Five micro liters of the BuOH layer were applied to a TLC plate, which was developed with solvent system A. [Kida *et al.*, *J. Trad. Med.*, **14**, 34-40 (1997)]

参考文献

- 1) Kida H., Nakamura N., Meselhy M. R., Akao T. and Hattori M.: Isolation and identification of human intestinal bacteria capable of hydrolyzing saikosaponins. *J. Trad. Med.*, **14**, 34-40 (1997).