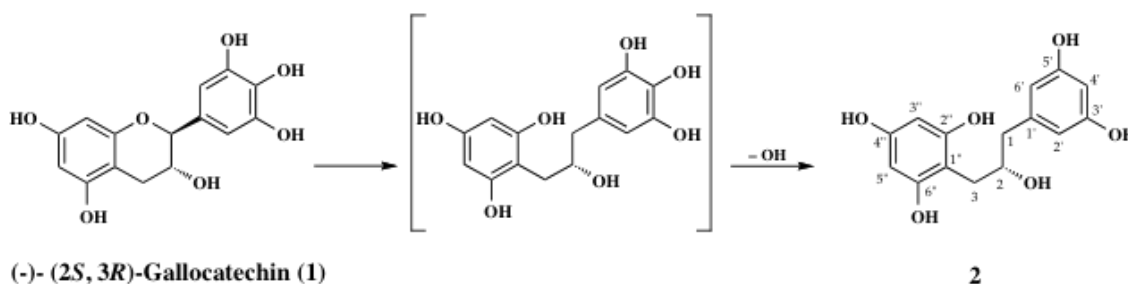


Gallocatechin



Transformation of epigallocatechin by *Eubacterium* sp. strain SDG-2

代謝実験

腸内細菌代謝 ヒト腸内細菌分離株 *Eubacterium* sp. strain SDG-2

Incubation of (-)-gallocatechin (**1**) with *Eubacterium* sp. strain SDG-2

(-)-Gallocatechin (**1**) (30 mg each in 2 ml MeOH) was added to a bacterial suspension and incubated anaerobically for 36 h. The reaction mixture was then treated as usual to give **2** (11 mg). [Wang *et al.*, *Chem. Pharm. Bull.*, **49**, 1640-1643 (2001)]

Compound **2**

Amorphous powder, $[\alpha]_D^{25} -20.0^\circ$ (c 0.1, MeOH). EI-MS m/z : 292 $[M]^+$. $^1\text{H-NMR}$ (MeOH- d_4) δ : 2.48 (1H, dd, $J=13.8, 8.7$ Hz, H-1a), 2.57 (1H, dd, $J=13.7, 3.6$ Hz, H-1b), 2.58 (1H, dd, $J=14.2, 7.3$ Hz, H-3a), 2.84 (1H, dd, $J=14.2, 4.6$ Hz, H-3b), 3.90 (1H, dddd, $J=8.7, 7.3, 4.6, 3.6$ Hz, H-2), 5.78 (2H, br s, H-3'', 5''), 6.00 (1H, t, $J=2.2$ Hz, H-4'), 6.09 (2H, d, $J=2.2, 1.0$ Hz, H-2', 6'). $^{13}\text{C-NMR}$ (MeOH- d_4) δ : 31.7 (C-3), 44.5 (C-1), 75.0 (C-2), 95.9 (C-3'', 5''), 101.3 (C-4'), 109.1 (C-2', 6'), 143.3 (C-1'), 157.7 (C-2'', 6''), 158.2 (C-4''), 159.1 (C-3', 5'). [Wang *et al.*, *Chem. Pharm. Bull.*, **49**, 1640-1643 (2001)]

参考文献

- 1) Wang L., Meselhy M. R., Li Y., Nakamura N., Min B., Qin G. and Hattori M.: The heterocyclic ring fission and dehydroxylation of catechins and related compounds by *Eubacterium* sp. strain SDG-2, a human intestinal bacterium. *Chem. Pharm. Bull.*, **49**, 1640-1643 (2001).