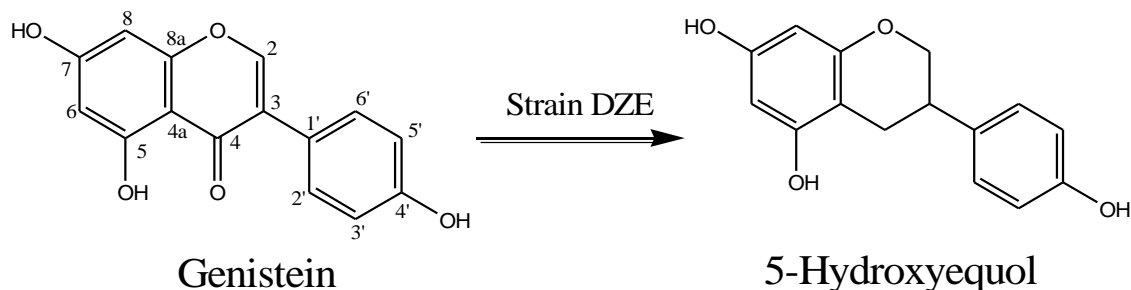


## Genistein



### Metabolism of genistein by human intestinal bacterium strain DZE

A bacterial suspension (50 ml) of strain DZE was inoculated to 0.8 l GAM broth containing genistein (50 mg) and incubated at 37 °C in an anaerobic incubator for 120 h. The reaction mixture was then extracted three times with ethyl acetate. The organic layer was evaporated under reduced pressure to give a residue. The residue was applied to a column of silica gel, which was eluted with a solvent system, CHCl<sub>3</sub>–MeOH (20 : 1), to give 5-hydroxyequol (24 mg, 50% in yield).

代謝実験

腸内細菌代謝 strain PUE

化合物の性状

### 5-Hydroxyequol

Amorphous powder. EI-MS  $m/z$ : 258  $[M]^+$ .  $[\alpha]_{23}^D -9.0^\circ$  ( $c=0.256$ , MeOH).