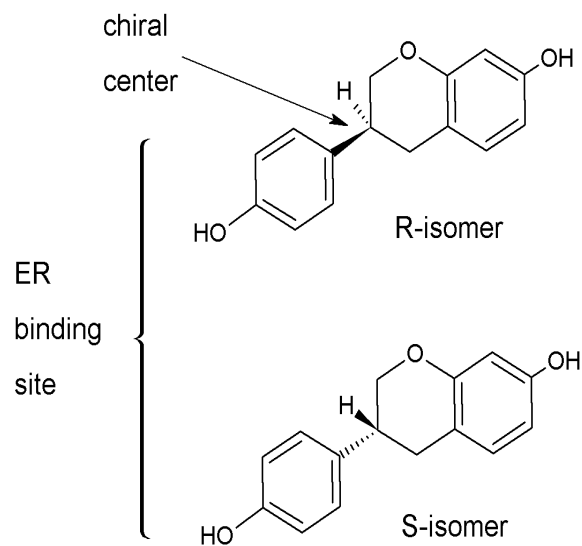


ONLINE SUPPORTING MATERIALS



Supplemental Figure 1. Enantiomer forms of chemically synthesized equol. During equol synthesis, the chiral carbon atom at the position C-3 of the furan ring enables two enantiomeric forms, S-equol and R-equol. The binding affinity of S-equol (naturally occurring form) is greater for ER- β , whereas binding affinity of the other isomer of equol, R-equol (chemically synthesized form) is greater for ER- α , which is abundant in reproductive tissues (6, 25).