

# Facile synthesis of acacetin-7-O- $\beta$ -D-galactopyranoside

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## Abstract

Acacetin-7-O- $\beta$ -D-galactopyranoside (**1**), a natural flavonoid isolated from flower heads of *Chrysanthemum morifolium*, has been reported to inhibit the replication of HIV in H9 cells. We achieved the total synthesis of compound **1** by employing a one-pot synthesis of the aglycon. The key reactions in this approach include the modified Baker–Venkataraman reaction and regio- and stereoselective O-glycosylations.

## Keywords

Acacetin-7-O- $\beta$ -D-galactopyranoside;

Flavonoid;

Aglycon;

Glycosyl fluoride;

O-glycosylation