

## Synthesis and Biological Activities of Wogonin

Jinhyun-Jeong, Dongmyung-Kim<sup>o</sup>  
 College of pharmacy, Kyunghee University

The roots of *Scutellaria baicalensis* Georgi have been used in the Chinese medicine for the treatment of inflammation, fever and headache.

Recent studies had shown that baicalin and baicalein showed a detoxifying effect and could inhibit peripheral capillary permeability, and Wogonin was found to inhibit the proliferation of tumor cells.

Wogonin has been synthesized as shown in scheme.

Compound **2** was prepared from 2,6-dimethoxy-1,4-benzoquinone (**1**) followed by acylation to give compound **3**.

The base treatment of **3** gave cyclized product which was carried by deprotection of methyl group chemoselectively. Overall step included relatively simple ten steps.

