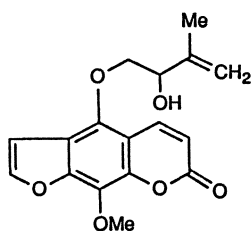


Pabulenol (17-48)



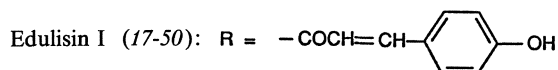
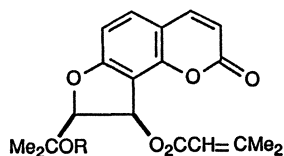
Apaensin (17-49)

17.2.4.2 Chemical Constituents of *Angelica omeiensis*

The furocoumarins isoimperatorin, oxypeucedanin, oxypeucedanin hydrate, byakangelicin, and coumarin were isolated from the root of *A. omeiensis* [32].

17.2.4.3 Chemical Constituents of *Angelica edulis*

From the root of *A. edulis* two new coumarins, edulisin I (17-50) and edulisin II (17-51), were isolated and their structure established by chemical studies and spectral analyses [33].



17.3 Pharmacology

17.3.1 Pharmacology of *A. dahurica* and its Constituents

Experiments to determine the effects of coumarins on the actions of adrenaline, ACTH, and insulin in fat cells isolated from rats showed that the furocoumarins oxypeucedanin, bergapten, xanthotoxin, imperatorin, and phellopterin activated adrenaline-induced lipolysis. Oxypeucedanin hydrate, imperatorin, and phellopterin also activated ACTH-induced lipolysis, whereas the furocoumarins byakangelicin, neobyakangelicol and isopimpinellin strongly inhibited insulin-stimulated lipogenesis. Therefore, the root of *A. dahurica* activates lipolytic hormones and selectively inhibits antilipolytic hormones [34].