

NMR assignments of tetra-/penta-hydroxyflavanone derivatives

Sungwon Hong, Joong-Hoon Ahn, Yoongho Lim

Bio/Molecular Informatics Center, Konkuk University

phone : 82-2-450-3760, fax : 82-2-453-3761

Abstract

Eriodictyol belongs to flavanone, which is used as a substrate of glucosyltransferase (AtGT) cloned from *Arabidopsis thaliana*. This compound includes four hydroxyl groups. To find other substrates of AtGT eridictyol derivatives were tested in our lab. One of the best way to identify the products by the enzyme is NMR spectroscopy. Therefore, we collected six eriodictyol derivatives and assigned their NMR data. The results can help us decide whether the enzyme uses the derivatives as its substrate or not.

Reference

1. Han J, Kim SY, Jung J, Lim Y, Ahn JH, Kim SI, Hur HG. Epoxide Formation on the Aromatic B Ring of Flavanone by Biphenyl Dioxygenase of *Pseudomonas pseudoalcaligenes* KF707. (2005) *Appl Environ Microbiol.* 71, 5354-61.