

Product Data Sheet

Product Name: Bassianin

Cat. No.: GC48589

Chemical Properties

Cas. No. 54278-73-8

SMILES OC(C(C1=CC=C(C=C1)O)=CN2O)=C(C(/C=C/C=C/C(C)=C/C(C)CC)=O)C2=O

Formula C₂₃H₂₅NO₅

M.Wt 395.5

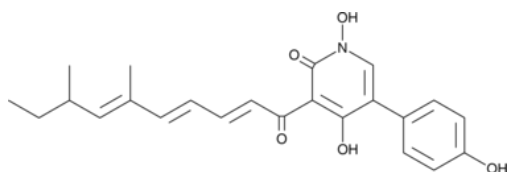
Solubility

Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Bassianin is a fungal metabolite that has been found in *Beauveria*.^{1,2} It inhibits Mg²⁺-, Ca²⁺-, and Na⁺/K⁺-ATPase activities in equine erythrocyte ghosts by 81, 58, and 23%, respectively, when used at a concentration of 200 µg/ml.¹ Bassianin is cytotoxic to Sf9 and Sf21 insect cells with 50% cytotoxic concentration (CC₅₀) values of 4.91 and 12.12 µM, respectively.²

1. Jeffs, L.B., and Khachatourians, G.G. Toxic properties of Beauveria pigments on erythrocyte membranes. *Toxicol.* 35(8):1351-1356 (1997).
2. Arboleda Valencia, J.W., Gaitán Bustamante, A.L., Jiménez, A.V., et al. Cytotoxic activity of fungal metabolites from the pathogenic fungus Beauveria bassiana: An intraspecific evaluation of beauvericin production. *Curr. Microbiol.* 63(3):306-312 (2011).

Caution: Product has not been fully validated for medical applications. For research use only.

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