

Product Data Sheet

Product Name: Butyrolactone II

Cat. No.: GC46105

Chemical Properties

Cas. No. 87414-44-6

SMILES O=C1C(O)=C(C2=CC=C(O)C=C2)[C@](CC3=CC=C(O)C=C3)(C(OC)=O)O1

Formula C₁₉H₁₆O₇

M.Wt 356.3

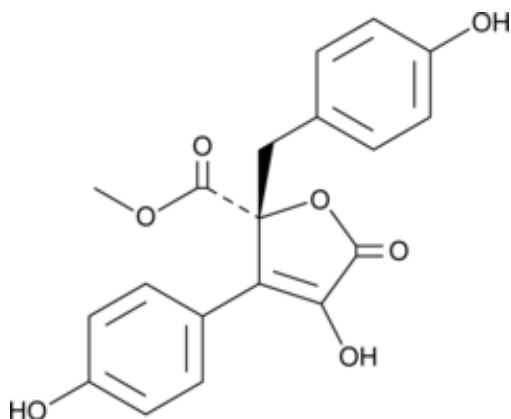
Solubility Soluble in DMSO

Storage Store at -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

Butyrolactone II is a butenolide fungal metabolite that has been found in *A. terreus*.¹ It scavenges 2,2-diphenyl-1-picrylhydrazyl and ABTS free radicals (EC₅₀s = 11.5 and 68.5 μM, respectively). It inhibits 5-lipoxygenase (5-LO; IC₅₀ = 21.43 μg/ml) and α-glucosidase (IC₅₀ = 0.126 mM).^{2,3}

[1. Kang, H.-S., and Kim, J.-P. Butenolide derivatives from the fungus *Aspergillus terreus* and their radical scavenging activity and protective activity against glutamate-induced excitotoxicity. *J. Appl. Biol. Chem.* 62:43, (2019).|2. Wang, F.-S., Ke, A.-B., Zhu, J.-T., et al. Butyrolactones, inhibitors of 5-lipoxygenase from fungal metabolites. *J. Chin. Pharma. Sci.* 19(4), 251-255 (2010).|3. Zhang, L.-H., Feng, B.-M., Zhao, Y.-Q., et al. Polyketide butenolide, diphenyl ether, and benzophenone derivatives

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

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from the fungus *Aspergillus flavipes* PJ03-11. *Bioorg. Med. Chem. Lett.* 26(2), 346-350 (2016).

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