

Product Data Sheet

Product Name: Butyrolactone V

Cat. No.: GC46106

Chemical Properties

Cas. No. 1151509-01-1

SMILES OC1=C(C2=CC=C(O)C=C2)[C@@](C(OC)=O)(CC3=CC(C[C@H](O)C(C)(C)O4)=C4C=C3)OC1=O

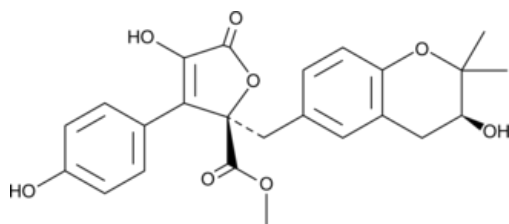
Formula C₂₄H₂₄O₈ M.Wt 440.4

Solubility Soluble in DMSO Storage Store at -20°C

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

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

Structure



Background

Butyrolactone V is a fungal metabolite that has been found in *A. terreus* and has antiprotozoal, antioxidant, and anticancer activities.^{1,2,3} It is active against the *P. falciparum* strain K1 (IC₅₀ = 7.9 µg/ml) and *L. amazonensis* promastigotes (IC₅₀ = 23.7 µM).^{2,1} Butyrolactone V (227 and 454.1 µM) is also active against adult *S. mansoni* worms.¹ It scavenges 2,2-diphenyl-1-picrylhydrazyl and ABTS radicals with IC₅₀ values of 20.7 and 3.7 µM, respectively, in cell-free assays.³ Butyrolactone V also inhibits proliferation of MDA-MB-231 and MCF-7 breast cancer cells (IC₅₀s = 22.2 and 31.9 µM, respectively).¹

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

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