

Product Data Sheet

Product Name: Quassin
Cat. No.: GC49243

Chemical Properties

Cas. No. 76-78-8

SMILES C[C@]12[C@@]3([H])[C@@]4([C@@]([C@@H](C=C(C4=O)OC)C)([H])C[C@@]1([H])OC(C[C@@]2([H])C(C)=C(C3=O)OC)=O)C

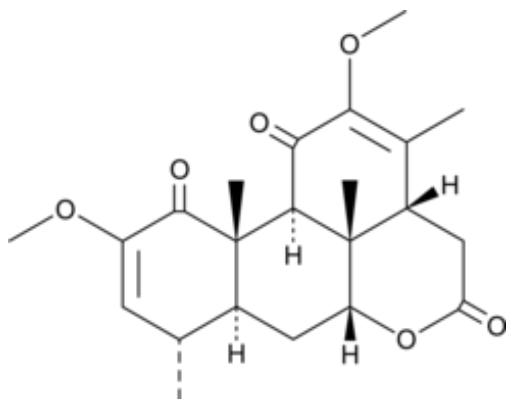
Formula C₂₂H₂₈O₆ M.Wt 388.5

Solubility DMSO : 100 mg/mL (257.43 mM; ultrasonic and warming and heat to 60°C) 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

Quassin is a quassinoid that has been found in *Q. amara* and has diverse biological activities.^{1,2,3} It is active against chloroquine-sensitive and -resistant strains of *P. falciparum* (IC₅₀ = 0.15 μM for both).¹ Quassin has antifeedant and insecticidal activity against the diamondback moth (*P. xylostella*) when applied to dietary cabbage leaf discs at 16, 31.9, or 63.7 μg/cm².² It increases viability of SH-SY5Y cells in a model of hydrogen peroxide-induced neuronal injury when used at concentrations of

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

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25, 50, or 100 μM .³

1.Mishra, K., Chakraborty, D., Pal, A., et al.Plasmodium falciparum: in vitro interaction of quassin and neo-quassin with artesunate, a hemisuccinate derivative of artemisininExp. Parasitol.124(4)421-427(2010) 2.Daido, M., Fukamiya, N., Okano, M., et al.Antifeedant and insecticidal activity of quassinoids against diamondback moth (Plutella xylostella)Biosci. Biotechnol. Biochem.57(2)2440246(1993) 3.He, C., Wang, Y., Yang, T., et al.Quassinoids with insecticidal activity against Diaphorina citri Kuwayama and neuroprotective activities from Picrasma quassioidesJ. Agric. Food. Chem.68(1)117-127(2020)

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