
Product Data Sheet

Product Name: Methyl brevifolincarboxylate

Cat. No.: GC61052

Chemical Properties

Cas. No. 154702-76-8

SMILES O=C(C1CC(C2=C1C3=C(O)C(O)=C(O)C=C3C(O2)=O)=O)OCFormula $C_{14}H_{10}O_8$ M.Wt 306.22Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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**

Methyl brevifolincarboxylate (Brevifolincarboxylic acid methyl ester) is a potent influenza virus PB2 cap-binding inhibitor. Methyl brevifolincarboxylate exhibits inhibitory activity against influenza virus A/Puerto Rico/8/34 (H1N1) and A/Aichi/2/68 (H3N2) with IC₅₀s of 27.16 μ M and 33.41 μ M. Anti-oxidant activity[1][2].

Methyl brevifolincarboxylate exhibits significant DPPH radical scavenging activity with an IC₅₀ value of 8.9 μ M.

[1]. Wu QY, et al. Chromatographic fingerprint and the simultaneous determination of five bioactive components of geranium carolinianum L. water extract by high performance liquid chromatography. Int J Mol Sci. 2011;12(12):8740-8749. [2]. Fang SH, et al. Anti-oxidant and inflammatory mediator's growth inhibitory effects of compounds isolated from Phyllanthus urinaria. J Ethnopharmacol. 2008;116(2):333-340.

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

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