

Product Data Sheet

Product Name: Brevifolincarboxylic acid

Cat. No.: GC35553

Chemical Properties

Cas. No. 18490-95-4

SMILES O=C(C1CC(C2=C1C3=C(O)C(O)=C(O)C=C3C(O2)=O)=O)O

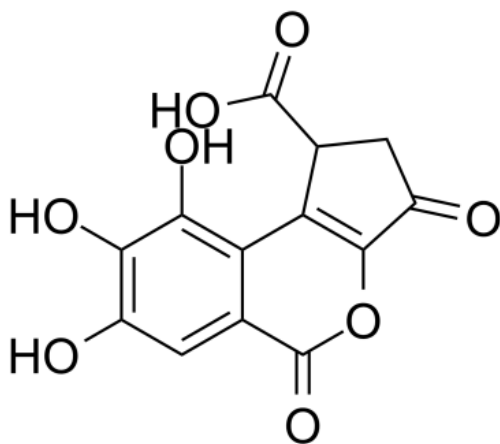
Formula $C_{13}H_8O_8$ M.Wt 292.2

Solubility DMSO : 33.33 mg/mL (114.07 mM; Storage 4°C, protect from light
Need ultrasonic)

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

Brevifolincarboxylic acid is extracted from *Polygonum capitatum*[1], has inhibitory effect on the aryl hydrocarbon receptor (AhR)[2]. Brevifolincarboxylic acid is an α -glucosidase inhibitor with an IC₅₀ of 323.46 μ M[3]. IC₅₀: 323.46 μ M (α -glucosidase) (Brevifolincarboxylic acid)[3]

[1]. Chen X, et al. Simultaneous isolation and purification of gallic acid and brevifolincarboxylic acid from *Polygonum capitatum* by high-speed counter-current chromatography. *Zhongguo Zhong Yao Za*

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

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Zhi. 2010 Aug;35(15):1957-60. [2]. Amakura Y, et al. Screening of the inhibitory effect of vegetable constituents on the aryl hydrocarbon receptor-mediated activity induced by 2,3,7,8-tetrachlorodibenzo-p-dioxin. Biol Pharm Bull. 2003 Dec; 26(12):1754-60. [3]. Liu M, et al. Separation of α -glucosidase inhibitors from *Potentilla kleiniana* Wight et Arn using solvent and flow-rate gradient high-speed counter-current chromatography target-guided by ultrafiltration HPLC-MS screening. Phytochem Anal. 2019 May 6.

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