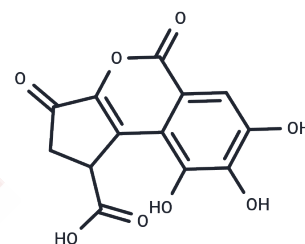


Brevifolincarboxylic acid

Chemical Properties

CAS No. :	18490-95-4
Formula:	C ₁₃ H ₈ O ₈
Molecular Weight:	292.20
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Brevifolincarboxylic acid is a natural product isolated from Polygonum capitatum, it has inhibitory effect on the aryl hydrocarbon receptor (AhR). Brevifolincarboxylic acid is an α -glucosidase inhibitor with an IC ₅₀ of 323.46 μ M.
Targets(IC ₅₀)	AhR,Aryl Hydrocarbon Receptor,Glucosidase,glycosidase,ROS,transporter
In vitro	The structure of these compounds was elucidated by 1H, 13C 1D NMR and mass spectrometry experiments. The antibacterial activity against Salmonella strains and antioxidant activity of the crude extract, fractions and isolated compounds was evaluated using the DPPH method. The isolated compounds identified as Brevifolincarboxylic acid and gallic acid demonstrates moderate antibacterial activity against Salmonella enteritidis , Salmonella typhimurium , and Salmonella abony [1]

Solubility Information

Solubility	DMSO: 50.00 mg/mL (171.12 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 0.5 mg/mL (1.71 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4223 mL	17.1116 mL	34.2231 mL
5 mM	0.6845 mL	3.4223 mL	6.8446 mL
10 mM	0.3422 mL	1.7112 mL	3.4223 mL
50 mM	0.0684 mL	0.3422 mL	0.6845 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

In vitro assays for bioactivity-guided isolation of antisalmonella and antioxidant compounds in Thonningia sanguinea flowers African Journal of Biotechnology, 2007 , 6 (14) :1685-1689.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481