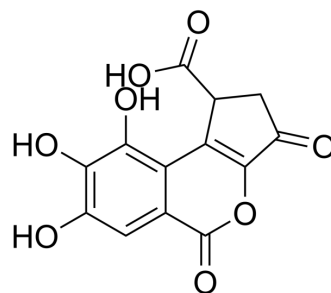


## Brevifolincarboxylic acid

Cat. No.:	HY-N4095
CAS No.:	18490-95-4
Molecular Formula:	C <sub>13</sub> H <sub>8</sub> O <sub>8</sub>
Molecular Weight:	292.2
Target:	Aryl Hydrocarbon Receptor; Glucosidase
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (114.07 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.83 mg/mL (2.84 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.83 mg/mL (2.84 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Brevifolincarboxylic acid is extracted from <i>Polygonum capitatum</i> <sup>[1]</sup> , has inhibitory effect on the aryl hydrocarbon receptor (AhR) <sup>[2]</sup> . Brevifolincarboxylic acid is an α-glucosidase inhibitor with an IC <sub>50</sub> of 323.46 μM <sup>[3]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 323.46 μM (α-glucosidase) (Brevifolincarboxylic acid) <sup>[3]</sup>

### REFERENCES

[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 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-

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p-dioxin. Biol Pharm Bull. 2003 Dec; 26(12):1754-60.

[3]. Liu M, et al. Separation of  $\alpha$ -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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**Caution: Product has not been fully validated for medical applications. For research use only.**

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