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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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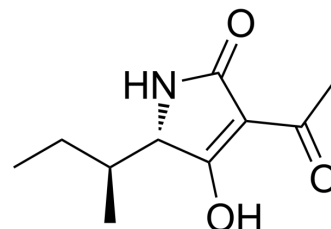
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Tenuazonic acid

Cat. No.:	HY-N6715
CAS No.:	610-88-8
Molecular Formula:	C ₁₀ H ₁₅ NO ₃
Molecular Weight:	197.23
Target:	Influenza Virus; Bacterial
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (253.51 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	5.0702 mL	25.3511 mL	50.7022 mL
		5 mM	1.0140 mL	5.0702 mL	10.1404 mL
		10 mM	0.5070 mL	2.5351 mL	5.0702 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: ≥ 1.25 mg/mL (6.34 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (6.34 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (6.34 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Tenuazonic acid, belonging to tetramic acids that are the largest family of natural products, is a putative nonhost-selective mycotoxin isolated from <i>Alternaria alternata</i> ^[1] . Tenuazonic acid blocks electron transport beyond primary quinone acceptor (QA) by interacting with D1 protein and it is a broad-spectrum and effective <i>photosystem II (PSII)</i> inhibitor ^[2] .
IC ₅₀ & Target	PSII ^[2]

REFERENCES

[1]. Zhou B, et al. An evaluation of tenuazonic acid, a potential biobased herbicide in cotton. Pest Manag Sci. 2019 Mar 7.

[2]. Chen S, et al. Recent advances in tenuazonic acid as a potential herbicide. Pestic Biochem Physiol. 2017 Nov;143:252-257.

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

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