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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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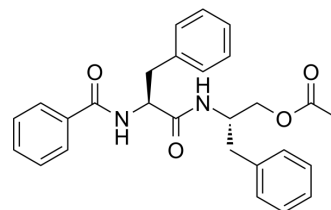
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Aurantiamide acetate

Cat. No.:	HY-N2905
CAS No.:	56121-42-7
Molecular Formula:	C ₂₇ H ₂₈ N ₂ O ₄
Molecular Weight:	444.52
Target:	Cathepsin
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (112.48 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.2496 mL	11.2481 mL	22.4962 mL
		5 mM		0.4499 mL	2.2496 mL	4.4992 mL
		10 mM		0.2250 mL	1.1248 mL	2.2496 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: 2.5 mg/mL (5.62 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.62 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Aurantiamide acetate (TMC-58A) is a selective and orally active cathepsin inhibitor isolated from <i>Portulaca oleracea</i> L. Aurantiamide acetate has anti-inflammatory activities and can be used for the study of inflammatory diseases ^{[1][2]} .
IC ₅₀ & Target	cathepsin L
In Vitro	Aurantiamide acetate inhibits cathepsin L (3.4.22.15) and cathepsin B (3.4.22.1) with IC ₅₀ of 12 μM and 49 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Aging (Albany NY). 2021 Aug 3;13(15):19598-19613.

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REFERENCES

- [1]. K Isshiki, et al. Aurantiamide Acetate, a Selective Cathepsin Inhibitor, Produced by Aspergillus Penicilloides. Biosci Biotechnol Biochem. 2001 May;65(5):1195-7.
- [2]. Chi-Su Yoon, et al. Anti-neuroinflammatory Effect of Aurantiamide Acetate From the Marine Fungus Aspergillus Sp. SF-5921: Inhibition of NF- κ B and MAPK Pathways in Lipopolysaccharide-Induced Mouse BV2 Microglial Cells. Int Immunopharmacol. 2014 Dec;23(2):568-74.
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Caution: Product has not been fully validated for medical applications. For research use only.

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