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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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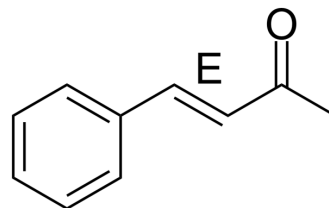
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trans-Benzylideneacetone

Cat. No.:	HY-W012595A
CAS No.:	1896-62-4
Molecular Formula:	C ₁₀ H ₁₀ O
Molecular Weight:	146.19
Target:	Phospholipase
Pathway:	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 : 100 mg/mL (684.04 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	6.8404 mL	34.2021 mL	68.4041 mL
		5 mM	1.3681 mL	6.8404 mL	13.6808 mL
		10 mM	0.6840 mL	3.4202 mL	6.8404 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 (17.10 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (17.10 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (17.10 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	trans-Benzylideneacetone (trans-Benzalacetone), a metabolite of gram-negative entomopathogenic bacterium <i>Xenorhabdus nematophila</i> , is an enzyme inhibitor against phospholipase A2 (PLA2). trans-Benzylideneacetone is an immunosuppressant ^[1] .
IC ₅₀ & Target	PLA2
In Vitro	Benzylideneacetone (trans-Benzylideneacetone; 0.005, 0.05, 0.5, 5, 50, 500, 5000 μM) inhibits hemocytespreading behavior of hemocytes of <i>S. exigua</i> larvae. Benzylideneacetone enhances virulence of <i>Bacillus thuringiensis</i> against beet armyworm ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kwon B, et al. Benzylideneacetone, an immunosuppressant, enhances virulence of *Bacillus thuringiensis* against beet armyworm (Lepidoptera: Noctuidae). *J Econ Entomol.* 2008 Feb;101(1):36-41.

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

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