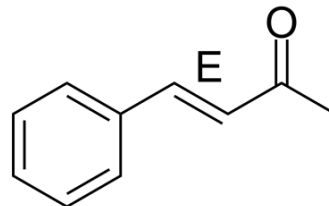


trans-Benzylideneacetone

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)



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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