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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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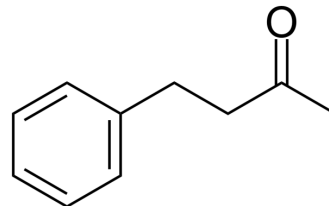
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Benzylacetone

Cat. No.:	HY-W015616		
CAS No.:	2550-26-7		
Molecular Formula:	C ₁₀ H ₁₂ O		
Molecular Weight:	148.21		
Target:	Tyrosinase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (674.72 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	6.7472 mL	33.7359 mL	67.4718 mL
		5 mM	1.3494 mL	6.7472 mL	13.4944 mL
10 mM		0.6747 mL	3.3736 mL	6.7472 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 (16.87 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.87 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.87 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Benzylacetone is an aromatic compound from agarwood ^[1] . Benzylacetone exhibits potent and reversible antityrosinase (mushroom) activity with IC ₅₀ s of 2.8 mM and 0.6 mM for monophenolase and diphenolase, respectively ^[2] . Benzylacetone has appetite-enhancing and locomotor-reducing effects ^[3] .
IC ₅₀ & Target	IC ₅₀ : 2.8 mM (monophenolase, tyrosinase mushroom), 0.6 mM (diphenolase, tyrosinase mushroom) ^[2]

REFERENCES

- [1]. Takamatsu S, et al. Agarotetrol: a source compound for low molecular weight aromatic compounds from agarwood heating. J Nat Med. 2018 Mar;72(2):537-541.
- [2]. Liu X, et al. Inhibition effects of benzylideneacetone, benzylacetone, and 4-phenyl-2-butanol on the activity of mushroom tyrosinase. J Biosci Bioeng. 2015 Mar;119(3):275-9.
- [3]. Ogawa K, et al. Appetite-Enhancing Effects: The Influence of Concentrations of Benzylacetone and trans-Cinnamaldehyde and Their Inhalation Time, as Well as the Effect of Aroma, on Body Weight in Mice. Biol Pharm Bull. 2016;39(5):794-8.
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Caution: Product has not been fully validated for medical applications. For research use only.

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