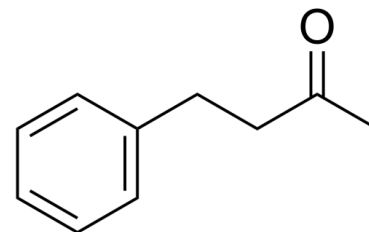


Data Sheet

Product Name:	Benzylacetone
Cat. No.:	CS-W016332
CAS No.:	2550-26-7
Molecular Formula:	C ₁₀ H ₁₂ O
Molecular Weight:	148.21
Target:	Tyrosinase
Pathway:	Metabolic Enzyme/Protease
Solubility:	DMSO : 100 mg/mL (674.72 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Benzylacetone is an aromatic compound from agarwood^[1]. Benzylacetone exhibits potent and reversible **antityrosinase** (mushroom) activity, with **IC₅₀s** of 2.8 mM and 0.6 mM for monophenolase and diphenolase, respectively^[2]. Benzylacetone has appetite-enhancing and locomotor-reducing effects^[3]. IC50 & Target: IC50: 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.

CAIndexNames:

2-Butanone, 4-phenyl-

SMILES:

CC(CCC1=CC=CC=C1)=O

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

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