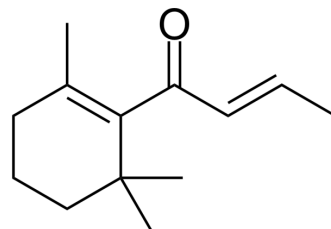


β-Damascone

Cat. No.:	HY-N10013		
CAS No.:	23726-91-2		
Molecular Formula:	C ₁₃ H ₂₀ O		
Molecular Weight:	192.3		
Target:	Others		
Pathway:	Others		
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 (520.02 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	5.2002 mL	26.0010 mL	52.0021 mL
		5 mM	1.0400 mL	5.2002 mL	10.4004 mL
10 mM		0.5200 mL	2.6001 mL	5.2002 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (13.00 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (13.00 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.00 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	β-Damascone is an aroma active rice volatile and is widely used in perfume compositions. β-Damascone has also received certain attention as a potential cancer chemopreventive and a mosquito and muscoid insecticide ^{[1][2]} .
In Vitro	CYP101C1 is capable of binding and hydroxylating ionone derivatives including α- and β-ionone and β-damascone ^[3] . Several of the key flavor compounds in rose essential oil are C ₁₃ -norisoprenoids, such as β-damascenone, β-Damascone, and β-ionone which are derived from carotenoid degradation ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Mahattanatawee K, et al. Comparison of aroma active and sulfur volatiles in three fragrant rice cultivars using GC-olfactometry and GC-PFPD. Food Chem. 2014;154:1-6.
- [2]. Gabryś B, et al. Systemic deterrence of aphid probing and feeding by novel β -damascone analogues. J Pest Sci (2004). 2015;88(3):507-516.
- [3]. Ma M, et al. Structural Analysis of CYP101C1 from *Novosphingobium aromaticivorans* DSM12444. Chembiochem. 2011;12(1):88-99.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA