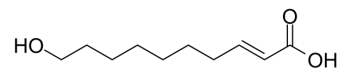


Royal Jelly acid

Cat. No.:	HY-N1363		
CAS No.:	14113-05-4		
Molecular Formula:	C ₁₀ H ₁₈ O ₃		
Molecular Weight:	186.25		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (536.91 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	5.3691 mL	26.8456 mL	53.6913 mL
		5 mM	1.0738 mL	5.3691 mL	10.7383 mL
10 mM		0.5369 mL	2.6846 mL	5.3691 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: 0.5% CMC-Na/saline water Solubility: 10 mg/mL (53.69 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (13.42 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (13.42 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.42 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Royal Jelly acid (Queen Bee Acid) is a fatty acid constituent of royal jelly, promotes the growth and protection of neurons, reduces anxiety-like phenotypes ^[1] .
IC₅₀ & Target	Human Endogenous Metabolite

CUSTOMER VALIDATION

- Food Res Int. 2021 Jan;139:109974.
- Phytomedicine. 2023 Jun 21, 154940.
- Heliyon. 2024 Jun 21;10(12):e33371.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Weiser MJ, et al. Long-Term Administration of Queen Bee Acid (QBA) to Rodents Reduces Anxiety-Like Behavior, Promotes Neuronal Health and Improves Body Composition. *Nutrients*. 2017 Dec 23;10(1).

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

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