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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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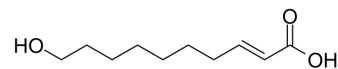
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Royal Jelly acid

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)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		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	1. Add each solvent one by one: 0.5% CMC-Na/saline water Solubility: 10 mg/mL (53.69 mM); Suspended solution; Need ultrasonic 2. 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 3. 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 4. 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] .
IC ₅₀ & Target	Human Endogenous Metabolite

CUSTOMER VALIDATION

- Food Res Int. 2021 Jan;139:109974.
- Phytomedicine. 2023 Jun 21, 154940.

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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