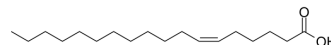


Petroselinic acid

Cat. No.:	HY-113362
CAS No.:	593-39-5
Molecular Formula:	C ₁₈ H ₃₄ O ₂
Molecular Weight:	282.46
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (354.03 mM)
* "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.5403 mL	17.7016 mL	35.4032 mL
	5 mM	0.7081 mL	3.5403 mL	7.0806 mL
	10 mM	0.3540 mL	1.7702 mL	3.5403 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (8.85 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (8.85 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (8.85 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Petroselinic acid, a positional isomer of oleic acid, is isolated from the vegetable oil of *Coriandrum sativum* fruits. Petroselinic acid is used as substrate for sophorolipid fermentation^[1].

IC₅₀ & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

-
- Br J Anaesth. 18 December 2021.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. /Delbeke EIP, et al., Petroselinic acid purification and its use for the fermentation of new sophorolipids. AMB Express. 2016 Mar;6(1):28.

[2]. Delbeke EIP, et al. Petroselinic acid purification and its use for the fermentation of new sophorolipids. AMB Express. 2016 Mar;6(1):28.

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

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