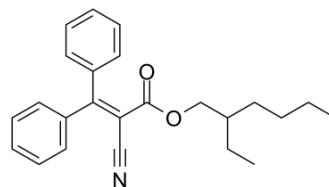


Octocrylene

Cat. No.:	HY-A0087		
CAS No.:	6197-30-4		
Molecular Formula:	C ₂₄ H ₂₇ NO ₂		
Molecular Weight:	361.48		
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 (276.64 mM)
 Ethanol : 50 mg/mL (138.32 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		2.7664 mL	13.8320 mL	27.6640 mL
	5 mM		0.5533 mL	2.7664 mL	5.5328 mL
	10 mM		0.2766 mL	1.3832 mL	2.7664 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 (6.92 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (6.92 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.92 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Octocrylene is an organic ultraviolet (UV) filter which absorbs mainly UVB radiation and short UVA wavelengths. Octocrylene has the potential for using in various cosmetic products to either provide an appropriate sun protection factor in sunscreen products or to protect cosmetic formulations from UV radiation^[1].

REFERENCES

[1]. E Berardesca, et al. Review of the safety of octocrylene used as an ultraviolet filter in cosmetics. J Eur Acad Dermatol Venereol. 2019 Nov;33 Suppl 7:25-33.

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

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