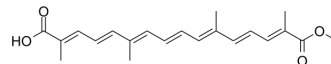


Crocetin monomethyl ester

Cat. No.:	HY-N6904
CAS No.:	25368-09-6
Molecular Formula:	C ₂₁ H ₂₆ O ₄
Molecular Weight:	342.43
Target:	Amyloid-β
Pathway:	Neuronal Signaling
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 31.25 mg/mL (91.26 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.9203 mL	14.6015 mL	29.2030 mL
5 mM	0.5841 mL	2.9203 mL	5.8406 mL
10 mM	0.2920 mL	1.4602 mL	2.9203 mL

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

BIOLOGICAL ACTIVITY

Description

Crocetin monomethyl ester, isolated from *Crocus sativus*, possesses anti-inflammatory, neuroprotective and antioxidant activity^{[1][2]}. Crocetin monomethyl ester promotes clearance of amyloid-β by inducing autophagy via the STK11/LKB1-mediated AMPK pathway^[4].

REFERENCES

- [1]. Tseng TH, et al. Crocetin protects against oxidative damage in rat primary hepatocytes. *Cancer Lett.* 1995 Oct 20;97(1):61-7.
- [2]. Ahmad AS, et al. Neuroprotection by crocetin in a hemi-parkinsonian rat model. *Pharmacol Biochem Behav.* 2005 Aug;81(4):805-13.
- [3]. Nam KN, et al. Anti-inflammatory effects of crocin and crocetin in rat brain microglial cells. *Eur J Pharmacol.* 2010 Dec 1;648(1-3):110-6.
- [4]. Wani A, Al Rihani SB, Sharma A, et al. Crocetin promotes clearance of amyloid-β by inducing autophagy via the STK11/LKB1-mediated AMPK pathway. *Autophagy.* 2021;17(11):3813-3832.

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

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