Supercinnamaldehyde

Cat. No.: HY-121539

CAS No.: 70351-51-8

Molecular Formula: $C_{12}H_{11}NO_2$

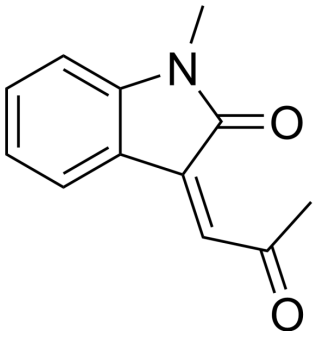
Molecular Weight: 201.22

Target: TRP Channel

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: -20°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (248.48 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.9697 mL	24.8484 mL	49.6968 mL
	5 mM	0.9939 mL	4.9697 mL	9.9394 mL
	10 mM	0.4970 mL	2.4848 mL	4.9697 mL

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

BIOLOGICAL ACTIVITY

Description

Supercinnamaldehyde is a potent transient receptor potential ankyrin 1 (TRPA1) activator with an EC_{50} value of 0.8 μM. Supercinnamaldehyde activates TRPA1 ion channels through covalent modification of cysteines[1].

REFERENCES

[1]. Macpherson LJ, et, al. Noxious compounds activate TRPA1 ion channels through covalent modification of cysteines. Nature. 2007 Feb 1;445(7127):541-5.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA