

Croctine dimethyl ester

Chemical Properties

CAS No. : 5892-54-6

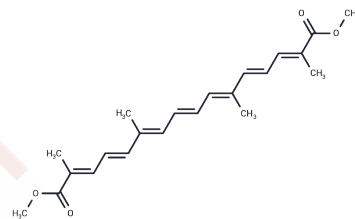
Formula: C₂₂H₂₈O₄

Molecular Weight: 356.46

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Croctine dimethyl ester (Dimethylcroctetin) is a saffronin derivative exhibiting antioxidant properties, inhibition of AChE activity, and suppression of cell growth and differentiation.
Targets(IC50)	Others,Antioxidant,DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble) Methanol: < 1 mg/mL (insoluble or slightly soluble) Ethanol: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8054 mL	14.0268 mL	28.0536 mL
5 mM	0.5611 mL	2.8054 mL	5.6107 mL
10 mM	0.2805 mL	1.4027 mL	2.8054 mL
50 mM	0.0561 mL	0.2805 mL	0.5611 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mamad O, DM, et al. Anti-seizure effects of JNJ-54175446 in the intra-amygdala kainic acid model of drug-resistant temporal lobe epilepsy in mice. *Front Pharmacol.* 2024 Jan 8;14:1308478.

Recourt K, et al. Characterization of the central nervous system penetrant and selective purine P2X7 receptor antagonist JNJ-54175446 in patients with major depressive disorder. *Transl Psychiatry.* 2023 Jul 24;13(1):266.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481