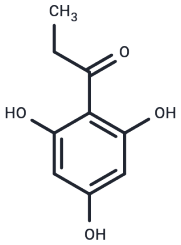
Data Sheet (Cat.No.T0525)

TargetMol

Flopropione

Chemical Properties



CAS No. : 2295-58-1

Formula: C9H10O4

Molecular Weight: 182.17

Appearance: no data available

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

Biological Description

Description	Flopropione (Phloropropiophenone), a spasmolytic or antispasmodic agent, is used as a 5-HT1A receptor antagonist.
Targets(IC50)	5-HT Receptor,Transferase
In vitro	Flopropione at temperatures below its T(g) shows no Lorentzian relaxation. Flopropione at temperatures below its T(g) has higher molecular mobility than Nifedipine. [1] Flopropione shows Arrhenius temperature dependence throughout the entire temperature range and extrapolation of tau (beta) measured above T (g) by dielectric relaxation agreed with tau (beta) measured below T (g) by TAM/MDSC. [2]

Solubility Information

Solubility	DMSO: 55 mg/mL (301.92 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 34 mg/mL (186.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.4894 mL	27.4469 mL	54.8938 mL
5 mM	1.0979 mL	5.4894 mL	10.9788 mL
10 mM	0.5489 mL	2.7447 mL	5.4894 mL
50 mM	0.1098 mL	0.5489 mL	1.0979 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.

Reference

Aso Y, et al. J Pharm Sci, 2000, 89(3), 408-416.
Xu Y, Qu Y, Zhang C, et al.Selective inhibition of overactive warmth-sensitive Ca2+-permeable TRPV3 channels by antispasmodic agent flopropione for alleviation of skin inflammation.Journal of Biological Chemistry.2023: 105595.
Bhugra C, et al. Pharm Res, 2006, 23(10), 2277-2290.

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