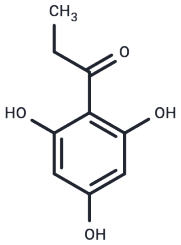
# Data Sheet (Cat.No.T0525)

TargetMol

## Flopropione

### Chemical Properties



CAS No. : 2295-58-1

Formula: C9H10O4

Molecular Weight: 182.17

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 | 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.<br>H2O: < 1 mg/mL (insoluble or slightly soluble),<br>Ethanol: 34 mg/mL (186.64 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (10.98 mM),Sonication is recommended.<br>*Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.* |

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.

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

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.