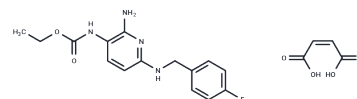


Flupirtine maleate

Chemical Properties

CAS No. :	75507-68-5
Formula:	C ₁₅ H ₁₇ FN ₄ O ₂ ·C ₄ H ₄ O ₄
Molecular Weight:	420.39
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Flupirtine maleate (Katadolon maleate), a centrally acting non-opioid analgesia, is the salt form of Flupirtine. It is an NMDA receptor antagonist, and also a specific neuronal potassium channel opener.
Targets(IC50)	Potassium Channel,NMDAR,iGluR
Cell Research	For measurement of viability and generation of reactive oxygen intermediates, PC12 cells are seeded in 24- or 96-well plates coated with poly-L-lysine at 105 cells/mL. Drugs are dissolved in PBS (pH 7.4), or ethanol and filtered sterile. At the end of each experiment cells are trypsinized and pelleted together with cells of the culture supernatant. After staining for 10 min with 0.2% Trypan blue solution live (unstained) and dead (Trypan blue positive) cells are counted in a hemocytometer chamber. In addition, cellular viability is evaluated by the reduction of MTT to formazan. After 2 hours incubation with MTT (0.5 mg/ml) at 37 °C, cells are lysed in DMSO. Extinction at 570 nm is determined on a plate photometer. For staining of surviving adherent cells, plates are incubated for 10 min with 0.5% crystalviolet dissolved in 20% methanol. Plates are rinsed with water and stained cells are lysed in 50% ethanol, 0.1 M sodiumcitrate before determining extinction at 550 nm. (Only for Reference)

Solubility Information

Solubility	DMSO: 42 mg/mL (100 mM), Ethanol: 4.2 mg/mL (10 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3787 mL	11.8937 mL	23.7874 mL
5 mM	0.4757 mL	2.3787 mL	4.7575 mL
10 mM	0.2379 mL	1.1894 mL	2.3787 mL
50 mM	0.0476 mL	0.2379 mL	0.4757 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

Perovic S, et al. Eur J Pharmacol, 1994, 288(1), 27-33.

Rupalla K, et al. Eur J Pharmacol, 1995, 294(2-3), 469-473

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