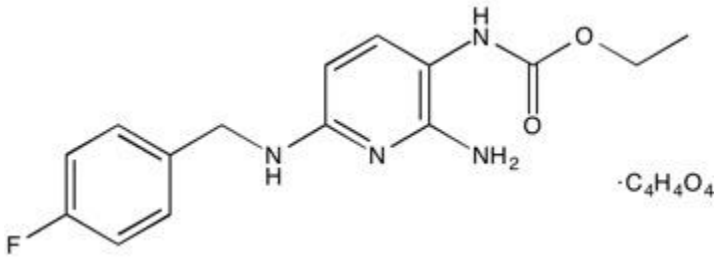
Catalog # 10-2416
Flupirtine maleate
CAS# 75507-68-5
D9998;
N-[2-Amino-6-[[(4-fluorophenyl)methyl]amino]-3-pyridinyl]carbamic acid ethyl ester maleate
Lot # X101915



Activates K_V7 potassium channels[1], indirectly antagonizes NMDA receptors and modulates $GABA_A$ receptors[2]. Displays neuroprotective actions in a model of cerebral ischemia in mice and reduces apoptosis and necrosis induced by noxious stimuli. Analgesic activity.[3] Active *in vivo*.

1) Azad *et al*. (2004), *The potassium channel modulator flupirtine shifts the frequency-response function of hippocampal synapses to favour LTD in mice*; Neuro. Sci. Lett., **370** 186
2) Klinger *et al*. (2012), *Concomitant facilitation of GABAA receptors and KV7 channels by the non-opioid analgesic flupirtine*; Br. J. Pharmacol., **166** 1631
3) Osbourne *et al*. (1998), *Flupirtine, a nonopioid centrally acting analgesic, acts as an NMDA antagonist*; Gen. Pharmacol., **30** 255

PHYSICAL DATA

Molecular Weight:	420.39
Molecular Formula:	$C_{15}H_{17}FN_4O_2 \cdot C_4H_4O_4$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml) or Ethanol (up to 4 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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