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 Kv7 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 \textit{in vivo}.

2) Klinger \textit{et al}. (2012), \textit{Concomitant facilitation of GABAA receptors and KV7 channels by the non-opioid analgesic flupirtine}; Br. J. Pharmacol., \textbf{166} 1631

**PHYSICAL DATA**

Molecular Weight: 420.39  
Molecular Formula: \( \mathrm{C}_{15}\mathrm{H}_{17}\mathrm{FN}_{4}\mathrm{O}_{2} \cdot \mathrm{C}_{4}\mathrm{H}_{6}\mathrm{O}_{4} \)  
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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