**Flupirtine maleate, Neuronal potassium channel opener ab142432**

**Overview**

**Product name**  
Flupirtine maleate, Neuronal potassium channel opener

**Description**  
Neuronal potassium channel opener

**Biological description**  
Neuronal potassium channel opener. Activates Kv7.2 channels and potently activates the inwardly rectifying potassium current (KIR; EC\(_{50}\) = 600 nM). Centrally acting, non-opiate analgesic. Neuroprotective and antiapoptotic agent. Also has muscle relaxant properties. Active *in vivo*.

**Purity**  
> 99%

**CAS Number**  
75507-68-5

**Chemical structure**

![Chemical structure image]

**Properties**

**Chemical name**  
Ethyl N-[2-amino-6-[(4-fluorophenyl)methylamino]pyridin-3-yl]carbamate maleate

**Molecular weight**  
420.40

**Molecular formula**  
C\(_{15}\)H\(_{17}\)FN\(_4\)O\(_2\)-C\(_4\)H\(_4\)O\(_4\)

**PubChem identifier**  
6435335

**Storage instructions**  
Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.

**Solubility overview**  
Soluble in DMSO to 100 mM and in ethanol to 10 mM (with warming)

**Handling**  
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

**SMILES**  
CCOC(=O)NC1=C(N=C(C=C1)NCC2=CC=C(C=C2)F)N.C(=CC(=O)O)C(=O)O

**Source**  
Synthetic
Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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