

Product Name: UK 59811 hydrochloride

Catalog No.: 6179

Batch No.: 1

IUPAC Name: 3-Ethyl 5-methyl 4-(2-bromophenyl)-2-((2-(dimethylamino)ethoxy)methyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₉BrN₂O₅.HCl.1/4H₂O

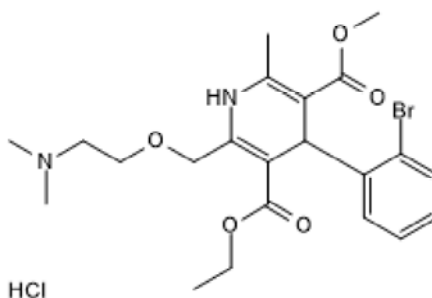
Batch Molecular Weight: 522.34

Physical Appearance: Pale yellow solid

Solubility: water to 20 mM
DMSO to 100 mM
ethanol to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.59	5.89	5.36
Found	50.34	5.97	5.43

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Description:

Blocks Ca_vAb, a site-directed mutant of bacterial Na_vAb with full voltage-dependent Ca²⁺ channel function (IC₅₀ = 194 nM).

Physical and Chemical Properties:

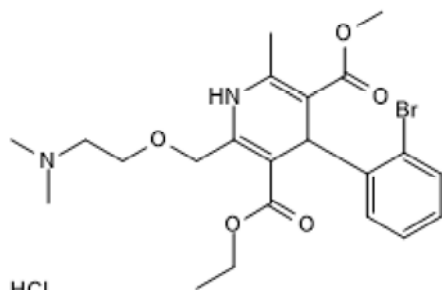
Batch Molecular Formula: C₂₂H₂₉BrN₂O₅.HCl.½H₂O

Batch Molecular Weight: 522.34

Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 20 mM

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

References:

Tang *et al* (2016) Structural basis for inhibition of a voltage-gated Ca²⁺ channel by Ca²⁺ antagonist drugs. *Nature* **537** 117. PMID: 27556947.

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