1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{18}H_{17}F_3N_4O.HCl.\frac{3}{4}H_2O \)
Batch Molecular Weight: 412.32
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM, ethanol to 100 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 98.3% purity
Chiral HPLC: Shows 99.8% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
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Certificate of Analysis
Print Date: Nov 4th, 2019
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**Product Name:** AP 14145 hydrochloride  
**Catalog No.:** 6481  
**Batch No.:** 1

**IUPAC Name:** N-[2-[[1(R)-1-[3-(Trifluoromethyl)phenyl]ethyl]amino]-1H-benzimidazol-7-yl]acetamide hydrochloride

**Description:**
K_{Ca2} (small conductance Ca^{2+}-activated potassium) channel negative allosteric modulator (IC_{50} = 1.1 \mu M). Increases the EC_{50} of Ca^{2+} on K_{Ca2.3} channels by ~3-fold. Prolongs atrial effective refractory period (AERP) in rats. Reduces atrial fibrillation (AF) duration and prolongs atrial refractoriness without affecting ventricular refractory period in an animal AF model.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C_{18}H_{17}F_{3}N_{3}O.HCl.\frac{3}{4}H_{2}O
- **Batch Molecular Weight:** 412.32
- **Physical Appearance:** Off White solid
- **Minimum Purity:** >98%

**Storage:** Store at -20°C

**Solubility & Usage Info:**
- 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.

**References:**