

## AP 14145 hydrochloride

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	KCa2 (small conductance Ca <sup>2+</sup> -activated potassium) channel negative allosteric modulator (IC <sub>50</sub> = 1.1 μM). Increases the EC <sub>50</sub> of Ca <sup>2+</sup> on KCa <sub>2.3</sub> 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.
Targets(IC <sub>50</sub> )	Others

## Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

Diness et al (2017) Termination of vernakalant-resistant atrial fibrillation by inhibition of small-conductance Ca<sup>2+</sup>-activated K<sup>+</sup> channels in pigs. *Circ.Arrhythm.Electrophysiol.* 10 e005125 PMID:29018164

Simó-Vicens et al (2017) A new negative allosteric modulator, AP14145, for the study of small conductance calcium-activated potassium (KCa<sub>2</sub>) channels. *Br.J.Pharmacol.* 174 4396 PMID:28925012

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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