
Product Data Sheet

Product Name: AP 14145 hydrochloride

Cat. No.: GC50471

Chemical Properties

Cas. No. 2387505-59-9

SMILES C[C@H](C1=CC(C(F)(F)F)=CC=C1)NC2=NC3=CC=CC(NC(C)=O)=C3N2.ClFormula $C_{18}H_{17}F_3N_4O.HCl$

M.Wt

398.81

Solubility Soluble in DMSO

Storage

Store at -20°C

General tips

For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

KCa₂ (small conductance Ca²⁺-activated potassium) channel negative allosteric modulator (IC₅₀ = 1.1 μM). Increases the EC₅₀ of Ca²⁺ on KCa_{2.3} 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.

Diness et al (2017) Termination of vernakalant-resistant atrial fibrillation by inhibition of small-conductance Ca²⁺-activated K⁺ 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 (KCa₂) channels. *Br.J.Pharmacol.* 174 4396 PMID:28925012

Caution: Product has not been fully validated for medical applications. For research use only.

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