

AP14145 hydrochloride Biochemical | AP14145 biochemical

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CATALOG #
AAA228388

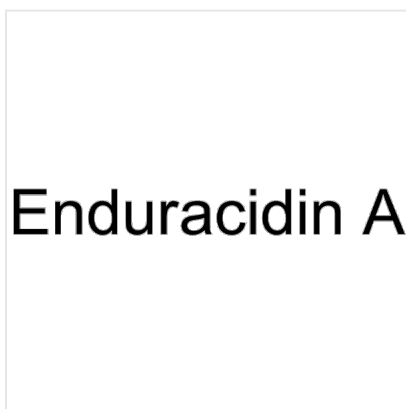
PRODUCT SYNONYMS

AP14145 hydrochloride; AP14145 biochemical

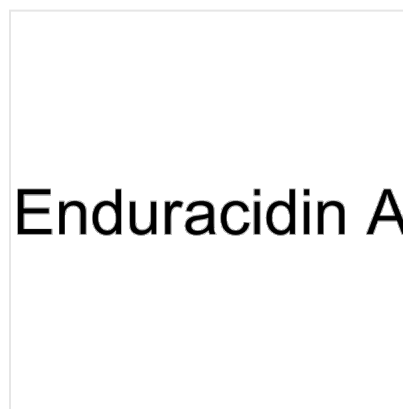
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	2387505-59-9
Targets&IC50	KCa2.3:1.1 uM (IC50), KCa2.2:1.1 uM (IC50)
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	AP14145 (10 uM) increases the duration of the atrial effective refractory period (AERP) in isolated perfused rat hearts[1]. AP14145 (2.5 and 5 mg/kg; bolus injections (iv)) increases the duration of the atrial effective refractory period in male sprague-dawley rats (250-350 g, 1-3 months old)[1]. AP14145 (5 mg/kg; bolus injections) has a C max of 8355 nmol/L, a t ^{1/2} of 24.3 minutes in landrace pigs (12-13 weeks old, 30-35 kg gilts)[2].
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Enduracidin A, CAS 34438-27-2



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ADDITIONAL INFORMATION

Related Product Information for AP14145 biochemical	AP14145 hydrochloride is a potent K Ca 2 (SK) channel negative allosteric modulator with an IC 50 of 1.1 uM for K Ca 2.2 (SK2) and K Ca 2.3 (SK3) channels. AP14145 hydrochloride inhibition strongly depends on two amino acids, S508 and A533 in the channel. AP14145 hydrochloride prolonged atrial effective refractory period (AERP) in rats and demonstrates antiarrhythmic effects in a Vernakalant-resistant porcine model of atrial fibrillation (AF).
References	1. Y-W Chen, et al. Characterization of Three Regulatory Genes Involved in Enduracidin Biosynthesis and Improvement of Enduracidin Production in Streptomyces Fungicidicus. J Appl Microbiol. 2019 Dec;127(6):1698-1705.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/ap14145-hydrochloride/228388>