Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Senicapoc

Catalog No: tcsc0294

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
289656-45-7

Formula:
$C_{20}H_{15}F_2NO$

Pathway:
Membrane Transporter/Ion Channel

Target:
Potassium Channel

Purity / Grade:
>98%

Solubility:
DMSO : 50 mg/mL (154.64 mM; Need ultrasonic)

Alternative Names:
ICA-17043

Observed Molecular Weight:
323.34

Product Description

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Senicapoc is a potent and selective **Gardos channel** blocker with **IC_{50}** value of 11 nM, and blocks Ca^{2+}-induced rubidium flux from human RBCs with an **IC_{50}** value of 11 nM and inhibits RBC dehydration with **IC_{50}** of 30 nM.

IC50 & Target: IC50: 11 nM (Gardos channel)

In Vitro: ICA-17043 is shown to block the Gardos channel of mouse (C57 Black) RBCs with an IC_{50} of 50±6 nM. ICA-17043 blocks this increase in cellular hemoglobin concentration in human RBCs in a concentration-dependent fashion[1].

In Vivo: ICA-17043 (10 mg/kg, p.o.) administration produces a significant decrease in Gardos channel activity measured at day 11 and 21 and is associated with a corresponding increase in red cell K^+ content without changes in Na^+ content. ICA-17043 (10 mg/kg, twice a day) induces a significant increase in Hct after 11 days of dosing in the SAD mouse[1]. Senicapoc (30 mg/kg, p.o.) reduces airway hyperresponsiveness, eosinophil numbers in bronchoalveolar lavage taken 48 hours post-allergen challenge, and vascular remodelling in the sheep[2].