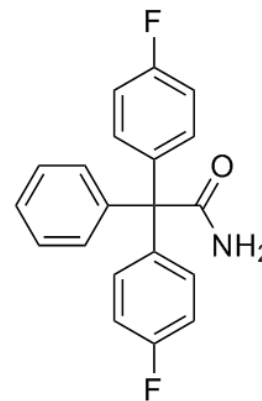


**Product Name** : Senicapoc  
**Cat. No.** : PC-45844  
**CAS No.** : 289656-45-7  
**Molecular Formula** : C<sub>20</sub>H<sub>15</sub>F<sub>2</sub>NO  
**Molecular Weight** : 323.336  
**Target** : Potassium Channel  
**Solubility** : 10 mM in DMSO



## Biological Activity

Senicapoc (ICA-17043) is a potent, selective Gardos channel (**KCa3.1**) blocker that blocks Ca(2+)-induced rubidium flux from human RBCs (IC<sub>50</sub>=11 nM) and inhibits RBC dehydration (IC<sub>50</sub>=10-50 nM).

Senicapoc (ICA-17043) shows greater potency and selectivity than Clotrimazole; increases RBC K(+) content and hematocrit (Hct), decreases corpuscular hemoglobin concentration (MCHC) in a transgenic mouse model of sickle cell disease (SAD). Senicapoc (ICA-17043) is orally active.

## References

Stocker JW, et al. *Blood*. 2003 Mar 15;101(6):2412-8.

Ataga KI, et al. *Blood*. 2008 Apr 15;111(8):3991-7.

Minniti CP, et al. *Br J Haematol*. 2011 Dec;155(5):634-6.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com