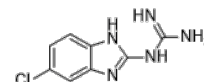


**Product Name** : CIGBI  
**Cat. No.** : PC-23858  
**CAS No.** : 70590-32-8  
**Molecular Formula** : C<sub>8</sub>H<sub>8</sub>ClN<sub>5</sub>  
**Molecular Weight** : 209.64  
**Target** : Proton Pump  
**Solubility** : 10 mM in DMSO



## Biological Activity

CIGBI is a selective blocker/inhibitor of voltage-gated proton channel Hv1 (HVCN1) with K<sub>d</sub> of 26 μM, induces acidification of leukemic Jurkat T cells promoting cell death by apoptosis.

CIGBI directly on hKV1.3 using a whole-cell patch clamp and found an inhibitory effect similar in magnitude to that seen on hHV1 (K<sub>d</sub> ≈ 72 μM).

CIGBI inhibits hKV1.1, hKV1.4-IR, hKV1.5, hKV10.1, hKV11.1, hKCa3.1, hNaV1.4, and hNaV1.5 channels with K<sub>d</sub> of 12-894 μM.

## References

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Gattas MV, et al. Redox Biol. 2020 Jan;28:101346.

Szanto TG, et al. Pharmaceuticals (Basel). 2023 Apr 27;16(5):656.

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

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