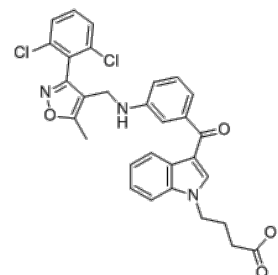


Product Name : DS16570511
Cat. No. : PC-61012
CAS No. : 2446154-84-1
Molecular Formula : C₃₀H₂₅Cl₂N₃O₄
Molecular Weight : 562.447
Target : Calcium Channel
Solubility : 10 mM in DMSO



Biological Activity

DS16570511 is a cell-permeable inhibitor of the **mitochondrial calcium uniporter (MCU)** that inhibits serum-induced mitochondrial Ca²⁺ influx in HEK293A cells with IC₅₀ of 7 μ M.

DS16570511 blocks the MCU- or MICU1-dependent increases of Ca²⁺ influx, blocks the Ca²⁺ uptake activity of the pig heart mitochondria with IC₅₀ of 15 μ M.

DS16570511 also blocks mitochondrial Ca²⁺ overload in a Langendorff perfused beating rat heart, increases cardiac contractility without affecting heart rate in the perfused heart.

References

Kon N, et al. *Cell Death Discov.* 2017 Jul 17;3:17045.

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

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