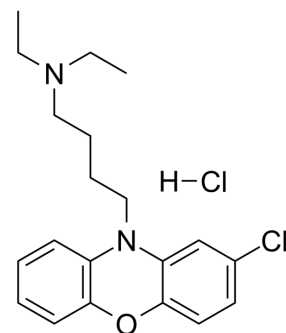


## 10-DEBC hydrochloride

<b>Cat. No.:</b>	HY-100654
<b>CAS No.:</b>	925681-41-0
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>26</sub> Cl <sub>2</sub> N <sub>2</sub> O
<b>Molecular Weight:</b>	381.34
<b>Target:</b>	Akt; Bacterial
<b>Pathway:</b>	PI3K/Akt/mTOR; Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	10-DEBC hydrochloride is a selective Akt inhibitor, with an IC <sub>50</sub> of 1.28 μM. 10-DEBC hydrochloride is a novel anti-TB compound <sup>[1][2]</sup> .
<b>In Vitro</b>	10-DEBC is found to inhibit the growth of Mtb in whole-cell assay with an IC <sub>50</sub> of 12.8 μM, while inhibiting replication of Mtb inside iMACs with an IC <sub>50</sub> of 1.5 μM, without host cell toxicity even at the highest concentration of 25 μM <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Wei Li, et al. More than just a GPCR ligand: structure-based discovery of thioridazine derivatives as Pim-1 kinase inhibitors. *Medicinal Chemistry Communications*.
- [2]. Hyo-Won Han, et al. Drug Discovery Platform Targeting M. tuberculosis with Human Embryonic Stem Cell-Derived Macrophages. *Stem Cell Reports*. 2019 Dec 10;13(6):980-991.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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