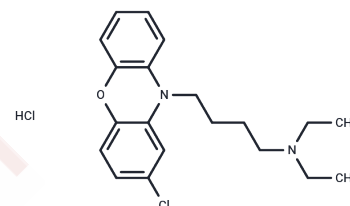


10-DEBC hydrochloride

Chemical Properties

CAS No. :	925681-41-0
Formula:	C ₂₀ H ₂₆ Cl ₂ N ₂ O
Molecular Weight:	381.34
Storage:	Keep away from moisture, Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	10-DEBC hydrochloride is a selective Akt inhibitor with an IC ₅₀ value of 1.28 μM that has also been identified as a novel anti-tuberculosis research compound, supporting investigations into Akt signaling modulation, host-pathogen interactions, and therapeutic strategies targeting kinase-regulated survival pathways in infectious disease models.
Targets(IC ₅₀)	Akt
In vitro	Method: Structure-based virtual screening of the LOPAC library was followed by Pim1 kinase enzymatic assays and cocrystal structure determination with identified hits. Result: Thioridazine and 10-DEBC hydrochloride were identified as low-micromolar Pim1 kinase inhibitors, and structural analysis defined key pharmacophore features underlying Pim1 inhibition[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (209.79 mM), Sonication is recommended. H ₂ O: 40 mg/mL (104.89 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6223 mL	13.1117 mL	26.2233 mL
5 mM	0.5245 mL	2.6223 mL	5.2447 mL
10 mM	0.2622 mL	1.3112 mL	2.6223 mL
50 mM	0.0524 mL	0.2622 mL	0.5245 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wei Li, et al. More than just a GPCR ligand: structure-based discovery of thioridazine derivatives as Pim-1 kinase inhibitors. Medicinal Chemistry Communications.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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