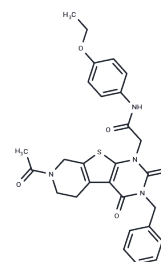


MCU-i11

Chemical Properties

CAS No. : 902903-59-7
 Formula: C₂₈H₂₈N₄O₅
 Molecular Weight: 532.61
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	MCU-i11 is a novel negative modulator of the MCU, binding MICU1 and impairing muscle cell growth.
Targets(IC50)	Others
In vitro	Mitochondrial Ca ²⁺ uptake in mouse embryonic fibroblasts (MEFs), MDA-MB-231, and HEK293T cell lines were measured upon treatment with 10 µM compound. MCU-i11 reduced mitochondrial Ca ²⁺ uptake in all tested cell lines, indicating the existence of a conserved mechanism. MCU-i11 had no effect on cell viability. [1]

Solubility Information

Solubility	DMSO: 45 mg/mL (84.49 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8775 mL	9.3877 mL	18.7755 mL
5 mM	0.3755 mL	1.8775 mL	3.7551 mL
10 mM	0.1878 mL	0.9388 mL	1.8775 mL
50 mM	0.0376 mL	0.1878 mL	0.3755 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.

Reference

Giulia Di Marco, et al. A High-Throughput Screening Identifies MICU1 Targeting Compounds. Cell Rep. 2020 Feb 18; 30(7):2321-2331.e6.

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